

**Change pages for patch GMRV\*4\*1 of the Vitals/Measurements 4.0 user manual.**

Change pages for Nursing 4.0 user manual are contained in NURS\_4\_P4\_UM.PDF.

Replace Pages:

iii-iv

1-2

1.1-1.4

2.1-2.18

4.1-4.20

5.1-5.18

GL.5-GL.6

IN.1-IN.2

With Pages:

iii-iv

1-2

1.1-1.4

2.1-2.18

4.1-4.20

5.1-5.22

GL.5-GL.6

IN.1-IN.4

# Table of Contents

## Section 1 Package Management

Introduction .....	1
Chapter 1 Implementation and Maintenance .....	1.1
Description.....	1.1
Virgin Installation of software.....	1.1
Setting up the software environment .....	1.1
Name spacing and file listing .....	1.1
Editing site configurable files .....	1.2
Queueing TaskMan jobs.....	1.2
Accessing menus .....	1.2
Assigning menus.....	1.2
Printer issues .....	1.3
Non-Virgin Installation of software .....	1.4
Implementation Considerations .....	1.5
Resource Requirements.....	1.5
Chapter 2 Maintenance of Site Files.....	2.1
Vitals/Measurement .....	2.1
Vitals/Measurements Site Files Menu .....	2.2
Edit Vitals Site Parameter File .....	2.3
Change Default Qualifiers for Temp./Pulse .....	2.6
Enter/Edit Vitals Qualifiers.....	2.8
Display Vitals Category/Qualifier/Synonym Table .....	2.11
Display Administration Schedule File .....	2.14
Edit Administration Schedules File .....	2.15
Create Vital Measurement Quick Order Protocol.....	2.18

## Section 2 Package Operation

Chapter 3 Package Operation .....	3.1
Chapter 4 Enter/Edit Vitals/Measurements.....	4.1
Vitals/Measurement Data Entry .....	4.1
Edit a Vital/Measurement Entered in Error.....	4.17
Chapter 5 Vitals/Measurements Reports.....	5.1
Vitals/Measurements Results Reporting.....	5.1
V/M Graphic Reports .....	5.2
Vital Signs Record.....	5.4
B/P Plotting Chart .....	5.6
Weight Chart.....	5.8
Pulse Oximetry/Respiration Graph.....	5.10
Latest Vitals Display for a Patient .....	5.13
Latest Vitals by Location.....	5.15
Cumulative Vitals Report.....	5.17
Print Vitals Entered in Error for a Patient .....	5.20
Glossary .....	GL.1
Index .....	IN.1

## Table of Contents

# Introduction

The Vitals/Measurements application is designed to store in the patient's electronic medical record all vital signs and various measurements associated with a patient's hospital stay or outpatient clinic visit. Data can be accessed by several VISTA (Veterans Health Information Systems and Technology Architecture) applications (e.g., Health Summary, Pharmacy) that interface with the Vitals/Measurements application.

## Functionality:

- Supports documentation of a patient's vital signs (e.g., temperature, pulse, and respiration).
- Tracks a patient's height, weight, central venous pressure (CVP), circumference/girth and oxygen saturation via oximetry with supplemental oxygen information.
- Supports documentation of detailed or positional blood pressures for a patient (i.e., bilateral blood pressures taken in a sitting, standing and lying position).
- Associates qualifiers (alpha characters appended to the measurement's numeric value) to provide a more detailed description of the patient's vitals/measurements.
- Contains detailed help screens to assist users in associating appropriate qualifiers with the patient vitals/measurements.
- Permits users to add site specific qualifiers that can be viewed on edit displays.
- Prints temperature, height, weight, CVP and circumference/girth in both metric equivalents and U.S. customary units.
- Prints a patient's Body Mass Index (BMI) which is calculated by dividing the person's weight in kilograms by the square of his height in meters.
- Prints patient's cumulative measurements on the Vitals Flow Sheet (SF511) and the Cumulative Vitals Report.
- Displays latest information on all of the patient's vitals/measurements in both metric equivalents and U.S. customary units along with the date/time the information was obtained.
- Prints an expanded vitals graphic report which includes the patient's intake and output when present in the patient's database (refer to the Intake and Output application).



- Prints blood pressure graphic reports.
- Interfaces with the Nursing software to display data on various nursing reports including the End of Shift Report.
- Interfaces with the Order Entry/Results Reporting and the Computerized Patient Record System (CPRS) to support ordering of vital signs and other measurements.
- Allows facilities to establish hospital-wide high and low values for each vital sign or measurement
- Identifies abnormal patient values on vitals/measurements reports (those values outside the high and low range).
- Prints the following patient measurements in a linear graphic format when using a Kyocera F-800A or HP compatible (programmable) printer:
  - Temperature and pulse.
  - Blood pressure.
  - Weight.
  - Pulse oximetry and respiration.
- If reports are printed on a dot matrix printer, plotted data values are not connected by a line.
- Audiometry, fundal height, fetal heart tones, head circumference, hearing, tonometry, vision corrected and vision uncorrected measurements are added to the GMRV Vital Type (#120.51) file for use by the Patient Care Encounter (PCE) application.
- Prints a Vitals Category/Qualifier/Synonym Table that lists all vital types (e.g., temperature, pulse), with their associated categories (e.g., location, site, method), measurement qualifiers (e.g., oral, tympanic, radial), and qualifier synonyms (e.g., oral=O, lying=Ly) used in the application.
- Supports facility specific defaults for temperature and pulse.
- Supports the archiving and purging of patient measurements, that are no longer required on the production account, through FileMan.
- Supports multiple changing of documentation parameters (e.g., date/time taken, vitals signs/measurements combination, and patient/location combination) through the Vitals/Measurements Data Entry option without leaving the menu.
- Passes patient vitals/measurements information (numeric values only) within a specific date range to the Health Summary application.
- Records a reason for the omission of a patient's vitals/measurements.
- Allows the entry of multiple Quick Order protocols with a single vital type.



# Chapter 1 Implementation and Maintenance

## **Description:**

This chapter provides guidelines for implementing the Vitals/Measurements application. It is important to complete all of the steps contained in this chapter before assigning menu options to clinical staff.

## **Virgin Installation of Software:**

The following steps should be followed when the Vitals/Measurements software is installed in an environment where no previous installation of the Vitals/Measurements application has taken place.

### 1. Setting up the software environment.

Information Resource Management Service (IRMS) staff should install the software using the Installation Guide in a test environment prior to installing the software in the production (VAH) account. The following *VISTA* packages should reside in the environment where the Vitals/Measurements application is to be installed:

- a. VA FileMan V. 21 or greater,
- b. Kernel V. 8.0 or greater,
- c. Kernel Toolkit V. 7.3 or greater,
- d. PIMS V. 5.3 or greater,
- e. Intake and Output V. 4.0,
- f. Health Summary V. 2.7 or greater.
- g. If you are using Order Entry/Results Reporting (OE/RR), V. 2.5 or greater, the Administration Schedule (#51.1) file of Inpatient Medications V. 4.5 or greater must be installed.

The Vitals/Measurements software must be installed before the Nursing V. 4.0 application can be installed because specific Nursing V. 4.0 options are dependent upon the Vitals/Measurements routines. Data entered into the test environment CANNOT be transferred into the production environment. It is recommended that a limited amount of data be entered into the test directory in order for the user to become familiar with the application and to establish an acceptable training data base.

### 2. Name spacing and file listing.

Vitals/Measurements is found in the GMRV namespace. All routines, templates and options begin with GMRV. File numbers are in the range of 120.5 to 120.57 and are stored in the ^GMR and ^GMRD globals.



### 3. Editing site configurable files.

- a. The Edit Vitals Site Parameter File option edits the GMRV Vitals Parameters (#120.57) file.
- b. The Enter/Edit Vitals Qualifiers option edits the GMRV Vital Qualifier (#120.52) file.
- c. The Display Vitals Category/Qualifier/Synonym Table option displays the GMRV Vital Category (#120.53) file.
- d. The Change Default Qualifiers for Temp./Pulse option edits the GMRV Vital Category (#120.53) file.
- e. The Edit Administration Schedules File option edits the Administration Schedule (#51.1) file.
- f. The Create Vital Measurement Quick Order Protocol option edits the Protocol (#101) file.

Review the above populated site configurable files. Files (a) through (d) are used in the screen displays associated with editing patient vitals/measurements. Files (e) and (f) must be populated if OE/RR V. 2.5 is implemented at your facility. The options which allow the application coordinator to edit the file data are all located in the GMRV Manager Menu (i.e., Vitals/Measurements Site File Menu, (option 4)). Refer to Vitals/Measurements User Manual, Chapter 2 for additional information.

### 4. Queueing TaskMan jobs

No queued TaskMan jobs are associated with this application.

### 5. Accessing menus

There is a separate set of similar menu options in both Vitals/Measurements and Nursing applications. The Vitals/Measurements software identifies a patient's hospital location by using the Hospital Location (#44) file. The Nursing software hooks into the Vitals/Measurements software and uses the Nursing Location (#211.4) file. In the Nursing package, Vitals/Measurements is found under Patient Care Data, Enter/Edit. Vitals/Measurements includes: Vitals/Measurement Data Entry and Edit a Vitals/Measurements Entered in Error. Vitals/Measurements Results Reporting is found under Patient Care Data, Print.

### 6. Assigning menus.

The GMRV menu contains the following menus or options:

Select OPTION NAME: **GMRVMGR** Vitals/Measurement

- 1 Vitals/Measurement Data Entry ...
- 2 Vitals/Measurements Results Reporting ...
- 3 Edit a Vital/Measurement Entered in Error
- 4 Vitals/Measurements Site Files Menu ...

Clinical staff should be assigned options 1 through 3. Option 4 should be assigned to the Vitals/Measurements application coordinator. The Vitals/Measurements Site Files menu is also found under the Clinical Site File Functions menu, in the Nursing application.

## 7. Printer issues.

Users may print graphic reports on a dot matrix printer, but plotted data is not connected by lines. Linear graphic reports can be printed using the Kyocera F-800A laser printers; HP LaserJet III, LaserJet 4, LaserJet 5; and HP compatible printers. When using a programmable graphic laser printer the setups need to be checked, to insure the correct format on the printed page.

The following special printer setup is for Kyocera type printers:

- a. Ensure the existence of a Kyocera entry in the Terminal Type file. This device compresses print and has a margin width of 132 characters. This entry may be exported by Kernel, or you may have to set up your own entry.
  - 1) The Name (#.01) field should begin with the characters P-KYOCERA e.g., P-KYOCERA-P16. This is important as the software will not recognize the device as a Kyocera printer if this Terminal Type entry is not set up properly.
  - 2) The Right Margin (#1) field must be 132.
- b. Create a Device file entry for the Kyocera printer.
  - 1) The Name (#.01) field should contain the word KYOCERA. This isn't required, but will make selection of this device by users easier.
  - 2) Sub-Type (#3) field should point to a Terminal Type entry that fits the characteristics defined above in (a-1).
  - 3) Margin Width (#9) field should be 132.
- c. In the Kyocera printer, PRESCRIBE Macro Buffer Size (H0)=99. To reprogram your printer,
  - 1) Type: !R! RES; FRPO H0, 99; EXIT; on your terminal/input device.
  - 2) Print this code on your Kyocera printer (using appropriate print commands at the device prompt). This may be done through a mail message.

- 3) Turn off the printer for a few seconds, then place the printer back on line (by turning it on). The printer will then be ready to print the linear graphic reports (e.g., SF511).

The following special printer setup is for HP LASERJET III, HP LASERJET 4 and HP LASERJET 5 printers:

- a. Ensure the existence of a HP LASERJET entry in the Terminal Type file. This device compresses print and has a margin width of 132 characters. This entry may be exported by Kernel, or you may have to set up your own entry.
  - 1) The Name (#.01) field should begin with the characters P-HPLASER e.g., P-HPLASER-L180. This is important as the Vitals/Measurements software will not recognize the device as an HP LASERJET printer if this Terminal Type entry is not set up properly.
  - 2) The Right Margin (#1) field must be 132.
- b. Create a Device file entry for the HP LASERJET printer.
  - 1) The Name (#.01) field should contain the word HPLASER. This isn't required, but will make selection of this device by users easier.
  - 2) Sub-Type (#3) field should point to a Terminal Type entry that fits the characteristics defined above in (b-1).
  - 3) Margin Width (#9) field should be 132.
  - 4) Suppress Form Feed at Close (#11.2) field should be set to YES.

Note: If the printer is not set up correctly, it will effect the printed output. KYOCERA and HPLASER are key words in the routine to identify which printer is being used, and IRMS must edit the Device file so the word KYOCERA or HPLASER appears in the name of the device (e.g., KYOCERA-PORT).

### **Non-Virgin Installation of Software:**

Follow steps 1 through 8 above when installing the software in an environment where a previous version of the application has been installed.

## Chapter 2 Maintenance of Site Files

### **GMRVMGR**

#### **Vitals/Measurement**

##### **Description:**

This is the main menu for the Vitals/Measurements application. It contains options for: (1) entering patient Vitals/Measurements data, (2) printing various vitals/measurements reports, (3) editing site configurable files. Patient data is stored in the GMRV Vital Measurement (#120.5) file.

##### **Additional Information:**

Option 4, Vitals/Measurements Site Files Menu, should be assigned to the application coordinator and/or designee. Content of these files should be coordinated across clinical services.

##### **Menu Display:**

```
Select OPTION NAME:  GMRVMGR                Vitals/Measurement

1  Vitals/Measurement Data Entry ...
2  Vitals/Measurements Results Reporting ...
3  Edit a Vital/Measurement Entered in Error
4  Vitals/Measurements Site Files Menu ...
```

##### **Menu Access:**

The Vitals/Measurement menu is the main menu.

## **GMRV SITE FILE MENU**

### **Vitals/Measurements Site Files Menu**

#### **Description:**

The ADP Coordinator can use the options contained in this menu to enter:

1. Vitals sign site parameters in the GMRV Vital Type (#120.51) file.
2. Vitals/measurements qualifiers and their synonyms in the GMRV Vital Qualifier (#120.52) file.
3. Temperature and pulse default qualifiers in the GMRV Category (#120.53) file.
4. Standard times when vitals are to be taken (ordered) in the Administration Schedule (#51.1) file.
5. Quick order protocols in the Protocol (#101) file.

This menu also prints:

1. Administration schedules associated with vitals/measurements.
2. A table displaying all vital types and their associated categories, qualifiers, and qualifier synonyms.

#### **Additional Information:**

The following options are specific to OE/RR V. 2.5 package implementation:

Edit Administration Schedules File  
Display Administration Schedule File  
Create Vital Measurement Quick Order Protocol

#### **Menu Display:**

Select Vitals/Measurement Option: **4** Vitals/Measurements Site Files Menu

- 1 Edit Vitals Site Parameter File
- 2 Change Default Qualifiers for Temp./Pulse
- 3 Enter/Edit Vitals Qualifiers
- 4 Display Vitals Category/Qualifier/Synonym Table
- 5 Edit Administration Schedules File
- 6 Display Administration Schedule File
- 7 Create Vital Measurement Quick Order Protocol

#### **Menu Access:**

The Vitals/Measurements Site Files Menu is accessed through the Vitals/Measurement menu.

## **GMRV SITE FILE EDIT**

### **Edit Vitals Site Parameter File**

#### **Description:**

This option allows the ADP coordinator, and selected staff, to edit the vital sign site parameters data including the abnormal patient measurement ranges. Site parameter data is stored in the GMRV Vitals Parameters (#120.57) file.

#### **Additional Information:**

This is one of the first files you want to review. Depending on your facility you may or may not have direct access to this file. The file contains pre-set high and low values for each vital measurement. These values can be changed to meet your facilities needs. The file also allows you to set a STOP DATE DEFAULT for a vital sign order, and CANCEL a vital sign order on ward transfer or service transfer of the patient. This stop date default and cancellation information is used in OE/RR V. 2.5.

The information of high and low values for the vital measurement parameters in this file is used in the following options:

1. Vitals/Measurement Data Entry
2. Vitals/Measurements Results Reporting
3. Edit a Vital/Measurement Entered in Error.

An asterisk (\*) following any displayed patient value indicates that the value is abnormal. The abnormal high is equal to or greater than the upper limit entered in the abnormal high field. The abnormal low is equal to or lower than the lower limit set in the abnormal low field.

#### **Menu Display:**

Select Vitals/Measurement Option: **4** Vitals/Measurements Site Files Menu

- |   |   |
|---|---|
| 1 | Edit Vitals Site Parameter File                 |
| 2 | Change Default Qualifiers for Temp./Pulse       |
| 3 | Enter/Edit Vitals Qualifiers                    |
| 4 | Display Vitals Category/Qualifier/Synonym Table |
| 5 | Edit Administration Schedules File              |
| 6 | Display Administration Schedule File            |
| 7 | Create Vital Measurement Quick Order Protocol   |

#### **Screen Prints:**

Select Vitals/Measurements Site Files Menu Option: **1** Edit Vitals Site Parameter File

## Maintenance of Site Files

Select GMRV VITALS PARAMETERS NAME: **HOSPITAL**

This field cannot be edited and it is the only entry that can appear in the name field of the Vitals Site Parameter file.

STOP DATE DEFAULT: 7// <RET>

Enter a hospital-wide stop date default for Vitals/Measurements. This field is used in OE/RR V. 2.5.

CANCEL ON WARD TRANSFER: NO// <RET>

This field controls the cancellation or continuation (in OE/RR V. 2.5) of a patient's ordered vitals upon a interward transfer. Answer 'yes' or 'no'.

CANCEL ON SERVICE TRANSFER: NO// <RET>

This field controls the cancellation or continuation (in OE/RR V. 2.5) of a patient's ordered vitals upon a interservice transfer. Answer 'yes' or 'no'.

The following fields allow the facility to define abnormal patient measurement ranges. A patient's abnormal measurement values are tagged by an asterisk (\*) on all vitals measurements reports. The numeric values displayed before the double slash (//) are exported with the package.

ABNORMAL TEMPERATURE - HIGH: 102// <RET>

Enter abnormal high temperature.

ABNORMAL TEMPERATURE - LOW: 95// <RET>

Enter abnormal low temperature.

ABNORMAL PULSE - HIGH: 100// <RET>

Enter abnormal high pulse.

ABNORMAL PULSE - LOW: 60// <RET>

Enter abnormal low pulse.

ABNORMAL RESPIRATION - HIGH: 30// <RET>

Enter abnormal high respiration.

ABNORMAL RESPIRATION - LOW: 8// <RET>

Enter abnormal low respiration.

ABNORMAL SYSTOLIC - HIGH: 210// <RET>

Enter abnormal high systolic.

ABNORMAL DIASTOLIC - HIGH: 110// <RET>

Enter abnormal high diastolic.

ABNORMAL SYSTOLIC - LOW: 100// <RET>

Enter abnormal low systolic.

ABNORMAL DIASTOLIC - LOW: 60// <RET>

Enter abnormal low diastolic.

ABNORMAL CVP - HIGH: 25// <RET>

Enter abnormal high central venous pressure. Type a number between -10 and 100, 1 decimal digit.

ABNORMAL CVP - LOW: 12// <RET>

Enter abnormal low central venous pressure. Type a number between -10 and 100, 1 decimal digit.

ABNORMAL O2 SATURATION - LOW: 60// <RET>

Enter abnormal low oxygen saturation. Type a number between 0 and 100, 0 decimal digits.

### **Menu Access:**

The Edit Vitals Site Parameter File option is accessed through the Vitals/Measurements Site Files Menu of the Vitals/Measurement menu.



## **GMRV VMQUALTY**

### **Change Default Qualifiers for Temp./Pulse**

#### **Description:**

This option is for the ADP coordinator to change hospital-wide default qualifiers for temperature and pulse. The default information is stored in the GMRV Vital Category (#120.53) file.

#### **Additional Information:**

The exported default for temperature is oral and for pulse, the default is radial. In a future release, the Vitals/Measurements Focus Group has requested the defaults be location based (i.e., wards, nursing units, clinics).

#### **Menu Display:**

Select Vitals/Measurement Option: **4** Vitals/Measurements Site Files Menu

- 1 Edit Vitals Site Parameter File
- 2 Change Default Qualifiers for Temp./Pulse
- 3 Enter/Edit Vitals Qualifiers
- 4 Display Vitals Category/Qualifier/Synonym Table
- 5 Edit Administration Schedules File
- 6 Display Administration Schedule File
- 7 Create Vital Measurement Quick Order Protocol

#### **Screen Prints:**

Select Vitals/Measurements Site Files Menu Option: **2** Change Default Qualifiers for Temp./Pulse

TEMPERATURE has the following location qualifiers:

- 1 AXILLARY
- 2 CORE
- 3 ORAL
- 4 RECTAL
- 5 SKIN
- 6 TYMPANIC

To change the temperature default from oral to tympanic, the coordinator enters the number '6' behind the //. If no change in the default is required, enter <RET> behind the //.

Enter a number for TEMPERATURE default qualifier  
or ^ to quit or @ to delete: ORAL// **6** TYMPANIC

PULSE has the following location qualifiers:

- 1 APICAL
- 2 BILATERAL PERIPHERALS
- 3 BRACHIAL
- 4 CAROTID
- 5 DORSALIS PEDIS
- 6 FEMORAL
- 7 OTHER
- 8 PERIPHERAL
- 9 POPLITEAL
- 10 POSTERIOR TIBIAL
- 11 RADIAL
- 12 ULNAR

Enter an appropriate default qualifier for PULSE or <RET> to retain the present default.

Enter a number for PULSE default qualifier  
or ^ to quit or @ to delete: RADIAL// <RET>

### **Menu Access:**

The Change Default Qualifiers for Temp./Pulse option is accessed through the Vitals/Measurements Site Files Menu of the Vitals/Measurement menu.

## **GMRV VMSITE**

### **Enter/Edit Vitals Qualifiers**

#### **Description:**

This option is used by the application coordinator to create and edit hospital-wide qualifiers and synonyms associated with vital signs and other patient measurements captured in the Vitals/Measurements application. Data is stored in the GMRV Vital Qualifier (#120.52) file.

#### **Additional Information:**

Qualifiers describe how patient vital signs and miscellaneous measurements were taken. These package qualifiers are categorized by location (e.g., right arm, left leg), position (e.g., lying, sitting, standing), method (e.g., cuff, Doppler, auscultate, assisted ventilator, T-piece), site (e.g., right, left), quality (e.g., actual, estimated), and cuff size (e.g., adult, small adult, pediatric). Synonyms are used as qualifier abbreviations and are appended to the measurement's numeric values on graphic reports. For your convenience, we have provided a report that lists the current vital types and their associated categories, qualifiers and synonyms found in the Vitals/Measurements application. This report can be printed by running the Display Vitals Category/Qualifier/Synonym Table option in the Vitals/Measurements Site Files Menu. Qualifier synonyms do not print on the Health Summary package reports.

#### **Restrictions:**

A new qualifier category cannot be entered into the software by the package coordinator. Also, new qualifier categories cannot be associated with a different vital type without a software patch issued by the developer. Please note, that once a qualifier is associated with a category of a vital type, it cannot be deleted, ONLY edited.

#### **Menu Display:**

Select Vitals/Measurement Option: **4** Vitals/Measurements Site Files Menu

- 1 Edit Vitals Site Parameter File
- 2 Change Default Qualifiers for Temp./Pulse
- 3 Enter/Edit Vitals Qualifiers
- 4 Display Vitals Category/Qualifier/Synonym Table
- 5 Edit Administration Schedules File
- 6 Display Administration Schedule File
- 7 Create Vital Measurement Quick Order Protocol

**Screen Prints:**

Select Vitals/Measurements Site Files Menu Option: **3** Enter/Edit Vitals Qualifiers  
 Enter/Edit Vital qualifiers for:

1. B/P    2. Pulse    3. Resp.    4. Temp.    5. Weight    6. Circum/Girth  
 7. Pulse Ox.    8. Height

The following is an example of setting up the software to identify and document that oxygen was administered when the pulse oximetry reading was taken. This is probably the most difficult relationship identified in the software. As you review other V/M entries, you will note that the category/qualifier and synonym relationships are more logically understood.

Select a number of vital type: **7** PULSE OXIMETRY

Enter the number of the vital type you wish to edit.

1. METHOD

Enter the number of the qualifier category you wish to enter/edit. Since only one category is listed, enter '1'.

Select the number of the qualifier category for PULSE OXIMETRY that you want to enter/edit: **1**

In this next step, the package coordinator associates the device (delivery method) used to administer the oxygen by typing the name of the vital qualifier, Venturi mask.

PULSE OXIMETRY has the following METHOD qualifiers:

AEROSOL/HUMIDIFIED MASK  
 FACE TENT  
 MASK  
 NASAL CANNULA  
 NON RE-BREATHING  
 PARTIAL RE-BREATHING  
 T-PIECE  
 TRACHEOSTOMY COLLAR  
 VENTILATOR

Enter a Vital Qualifier: **VENTURI MASK**

Are you adding 'VENTURI MASK' as  
 a new GMRV VITAL QUALIFIER (the 66TH)? No// **Y** (Yes)  
 QUALIFIER: VENTURI MASK// **<RET>** PO2

Enter the appropriate synonym (1-3 characters) for the qualifier. Remember, that if you are unsure of the correctness of the qualifier to the category, answer 'No' at this prompt. When 'Yes' is entered to this question, the user can only change the stored entry, not delete it.

SYNONYM: **VM**

The list of all qualifiers associated with the method category for pulse oximetry is re-displayed.

## Maintenance of Site Files

PULSE OXIMETRY has the following METHOD qualifiers:

AEROSOL/HUMIDIFIED MASK

FACE TENT

MASK

NASAL CANNULA

NON RE-BREATHING

PARTIAL RE-BREATHING

T-PIECE

TRACHEOSTOMY COLLAR

VENTILATOR

VENTURI MASK

Enter a Vital Qualifier: <RET>

At this prompt you may enter <RET> to return to the main menu, enter additional category (method) related qualifiers associated with the vital type, or edit existing qualifiers. Remember that no qualifiers may be deleted.

### Menu Access:

The Enter/Edit Vitals Qualifiers option is accessed through the Vitals/Measurements Site Files Menu of the Vitals/Measurement menu.

## GMRV CAT/QUAL TABLE

### | Display Vitals Category/Qualifier/Synonym Table

#### Description:

| This option displays a list of categories, qualifiers and synonyms associated with individual vital types (e.g., blood pressure, temperature, pulse, respirations, weight, circumference/girth and pulse oximetry). Data comes from the GMRV Vital Qualifier (#120.52) file and the GMRV Vital Category (#120.53) file.

#### Additional Information:

| Qualifiers describe how patient vital signs and miscellaneous measurements were taken. These package qualifiers are categorized by location (e.g., right arm, left leg), position (e.g., lying, sitting, standing), method (e.g., cuff, Doppler, auscultate, assisted ventilator, T-piece), site (e.g., right, left), quality (e.g., actual, estimated), and cuff size (e.g., adult, small adult, pediatric). Synonyms are used as qualifier abbreviations appended to Vitals/Measurements numeric values on graphic reports. Qualifier synonyms do not print on the Health Summary package reports. Data displayed in this report can be updated by the application coordinator through the Enter/Edit Vitals Qualifiers option in the Vitals/Measurements Site Files Menu.

#### Menu Display:

Select Vitals/Measurement Option: **4** Vitals/Measurements Site Files Menu

- 1 Edit Vitals Site Parameter File
- 2 Change Default Qualifiers for Temp./Pulse
- 3 Enter/Edit Vitals Qualifiers
- | 4 Display Vitals Category/Qualifier/Synonym Table
- 5 Edit Administration Schedules File
- 6 Display Administration Schedule File
- 7 Create Vital Measurement Quick Order Protocol

#### Screen Prints:

| Select Vitals/Measurements Site Files Menu Option: **4** Display Vitals Category/Qualifier/Synonym Table

DEVICE: Enter appropriate device (This report must be queued when sent to a printer.)

## Maintenance of Site Files

### Qualifiers for BLOOD PRESSURE:

LOCATION	POSITION	METHOD	CUFF SIZE
-----	-----	-----	-----
L ARM: LA	LYING: Ly	CUFF: Cu	ADULT: Ad
L LEG: LL	SITTING: Si	DOPPLER: Dop	LG ADULT: LgA
R ARM: RA	STANDING: St	NON-INVASIVE: N-I	PEDIATRIC: Ped
R LEG: RL		PALPATED: Pal	SM ADULT: SmA
			THIGH: Thi

### Qualifiers for PULSE:

LOCATION	SITE	METHOD	POSITION
-----	-----	-----	-----
APICAL: Ap	LEFT: Lt	AUSCULTATE: Aus	LYING: Ly
BILATERAL PERIPHERALS: BiP	RIGHT: Rt	DOPPLER: Dop	SITTING: Si
BRACHIAL: Bra		PALPATED: Pal	STANDING: St
CAROTID: Car			
DORSALIS PEDIS: DP			
FEMORAL: Fem			
OTHER: Oth			
PERIPHERAL: Per			
POPLITEAL: Pop			
POSTERIOR TIBIAL: PT			
RADIAL: Rad			
ULNAR: Uln			

### Qualifiers for RESPIRATION:

METHOD	POSITION
-----	-----
ASSISTED VENTILATOR: AV	LYING: Ly
CONTROLLED VENTILATOR: CV	SITTING: Si
SPONTANEOUS: S	STANDING: St

### Qualifiers for TEMPERATURE:

LOCATION
-----
AXILLARY: A
CORE: C
ORAL: O
RECTAL: R
SKIN: S
TYMPANIC: T

### Qualifiers for WEIGHT:

QUALITY	METHOD
-----	-----
ACTUAL: A	BED: B
DRY: D	CHAIR: C
ESTIMATED: E	STANDING: St

Vitals/Measurements Category/Qualifier/Synonym Table

Page 2

-----  
Qualifiers for CIRCUMFERENCE/GIRTH:

LOCATION	SITE
-----	----
ABDOMINAL: Abd	LEFT: Lt
ANKLE: Ank	RIGHT: Rt
CALF: Clf	
HEAD: Hd	
LOWER ARM: LrA	
OTHER: Oth	
THIGH: Thi	
UPPER ARM: UpA	
WRIST: Wri	

Qualifiers for HEIGHT:

QUALITY
-----
ACTUAL: A
ESTIMATED: E

Qualifiers for PULSE OXIMETRY:

METHOD
-----
AEROSOL/HUMIDIFIED MASK: AM
FACE TENT: FT
MASK: M
NASAL CANNULA: NC
NON RE-BREATHING: NRB
PARTIAL RE-BREATHING: PRB
T-PIECE: TP
TRACHEOSTOMY COLLAR: TC
VENTILATOR: Ven
VENTURI MASK: VM

**Menu Access:**

The Display Vitals Category/Qualifier/Synonym Table option is accessed through the Vitals/Measurements Site File Menu option of the Vitals/Measurement menu.



## **GMRV SCHED FILE DISP**

### **Display Administration Schedule File**

#### **Description:**

This option displays entries in the Administration Schedule (#51.1) file which are associated with the Vitals/Measurement application. Administration schedules related to other *VISTA* packages do not display.

#### **Additional Information:**

The Display Administration Schedule File option prints information on a single, standard schedule associated with this package's measurements. A full report of schedules associated with this package cannot be printed.

This option only displays information to the screen; data cannot be sent to a printer. The data displayed through this option was entered through the Edit Administration Schedules File option found in the Vitals/Measurements Site Files Menu.

#### **Menu Display:**

Select Vitals/Measurement Option: **4** Vitals/Measurements Site Files Menu

- 1 Edit Vitals Site Parameter File
- 2 Change Default Qualifiers for Temp./Pulse
- 3 Enter/Edit Vitals Qualifiers
- | 4 Display Vitals Category/Qualifier/Synonym Table
- 5 Edit Administration Schedules File
- 6 Display Administration Schedule File
- 7 Create Vital Measurement Quick Order Protocol

#### **Screen Prints:**

Select Vitals/Measurements Site Files Menu Option: **6** Display Administration Schedule File

Select STANDARD SCHEDULE: **QID** 10-14-18

Schedule: QID

Type: CONTINUOUS

| Standard Admin Times: 9-1-6-9

Location: 2AS

| Admin Times: 8-12-5-8

#### **Menu Access:**

The Display Administration Schedule File option is accessed through the Vitals/Measurements Site File Menu option of the Vitals/Measurement menu.

## **GMRV SCHED FILE EDIT**

### **Edit Administration Schedules File**

#### **Description:**

This option permits the entering and editing of entries into the Administration Schedule (#51.1) file by the Vitals/Measurements application coordinator and/or the OE/RR application coordinator. This file ties the Vitals/Measurements application to the OE/RR Order File V. 2.5. It allows you to enter "hospital standard" (default) administration times for vital measurements and location specific administration times.

#### **Additional Information:**

This option allows the application coordinator to establish hospital-wide administration schedules which identify the frequency for taking patient vital signs and other measurement readings. As an example, schedules may be defined as Q8 hrs. for every eight hours, QOD for every other day, and MO-WÉ-FR for Monday Wednesday, and Friday. Standard administration times identifying the time a measurement reading is taken (e.g., 0600, 1400, and 2200) must be associated with each hospital wide administration schedule. An individual patient care location, i.e., nursing unit or hospital ward, may establish separate administration times for taking patient measurements. The Administration Times field following the Hospital Location prompt must be completed to associate a location-specific administration time with the (hospital-wide) administration schedule. If the application coordinator wants to print the data associated with a single administration schedule, use the option, Display Administration Schedule File [GMRV SCHED FILE DISP].

#### **Menu Display:**

Select Vitals/Measurement Option: **4** Vitals/Measurements Site Files Menu

- 1 Edit Vitals Site Parameter File
- 2 Change Default Qualifiers for Temp./Pulse
- 3 Enter/Edit Vitals Qualifiers
- 4 Display Vitals Category/Qualifier/Synonym Table
- 5 Edit Administration Schedules File
- 6 Display Administration Schedule File
- 7 Create Vital Measurement Quick Order Protocol

#### **Screen Prints:**

Select Vitals/Measurements Site Files Menu Option: **5** Edit Administration Schedules File

|Enter an appropriate administration schedule in the format of an abbreviation.

Select ADMINISTRATION SCHEDULE: QOD

NAME: QOD// <RET>

|Enter type of schedule.

The TYPE OF SCHEDULE determines how the schedule will be processed or when an action should occur. The following is a list of choices used to define this field, refer to the following explanations and examples for clarification of listed terminology.

C	CONTINUOUS
D	DAY OF THE WEEK
DR	DAY OF THE WEEK-RANGE
O	ONE-TIME
R	RANGE
S	SHIFT

A CONTINUOUS schedule occurs on a regular basis, such as 'three times a day' or 'once every two days'.

A DAY OF THE WEEK schedule occurs only on specific days of the week. This type of schedule should have admin times entered with it. If not, the start time of the order is used as the admin time. Whenever this type is chosen, the name of the administration schedule must be in the form of 'MO-WE-FR'.

A DAY OF THE WEEK-RANGE schedule occurs only on specific days of the week, but at no specific time of day (no admin times). Whenever this type is chosen, the name of the schedule must be in the form of 'MO-WE-FR'.

A ONE-TIME schedule occurs once only at a specific date and time.

A RANGE schedule occurs within a given date range.

A SHIFT schedule occurs within a given range of times of day.

TYPE OF SCHEDULE: CONTINUOUS// <RET>

Enter a time of day, or a set of times. All times must be the same length (2 or 4 characters), must be separated by dashes ("-"), and be in ascending order (e.g., 0600-1400-2000). The entry in the field is from 2 to 119 characters in length.

STANDARD ADMINISTRATION TIMES: 0600

FREQUENCY (IN MINUTES): <RET>

If the frequency field appears, it should be left blank. The Vitals/Measurements software does not use data stored in this field.

When a hospital location is associated with the administration schedule, the schedule is not used as a hospital-wide default.

Select HOSPITAL LOCATION: 5 EAST Individual unit associated with the schedule.

Are you adding '5 EAST' as a new HOSPITAL LOCATION (the 1ST for this ADMINISTRATION SCHEDULE)? No// YES

Answer with the hospital location for which this administration schedule is applicable. If this field is left blank, the next field appearing is MAX DAYS FOR ORDERS.

ADMINISTRATION TIMES: 0900

The administration time for the ward may be different than the standard administration time.

You may enter another location.

Select HOSPITAL LOCATION: <RET>

Enter maximum number of days continuous orders will last for this administration schedule. **For Vitals orders this field should be left blank.**

MAX DAYS FOR ORDERS: <RET>

You may enter another administration schedule.

Select ADMINISTRATION SCHEDULE: <RET>

### **Menu Access:**

The Edit Administration Schedules File option is accessed through the Vitals/Measurements Site Files Menu of the Vitals/Measurement menu.

## **GMRVORQUICK**

### **Create Vital Measurement Quick Order Protocol**

#### **Description:**

This option allows users to create and edit quick order protocols. The user can choose whether the quick order will display prompts with default values, or not display prompts and have the default values automatically entered. Protocol data is stored in the Protocol (#101) file, (OE/RR V. 2.5).

#### **Additional Information:**

A quick order protocol is created by using one of the listed protocol items that have been entered in the Protocol file. The software does not support the creation of a quick order protocol using a combination of listed protocol items. The user may individually enter multiple protocols for each vital type. These protocol items (vital types) are listed with the existing quick order protocols when the user enters a '?' at the 'Select Protocol to be added as a Quick Protocol' prompt. Each quick order protocol entered is preceded by the word 'quick' which is added by the software. This option should be disabled when a facility is not using the OE/RR application.

#### **Menu Display:**

Select Vitals/Measurement Option: **4** Vitals/Measurements Site Files Menu

- 1 Edit Vitals Site Parameter File
- 2 Change Default Qualifiers for Temp./Pulse
- 3 Enter/Edit Vitals Qualifiers
- 4 Display Vitals Category/Qualifier/Synonym Table
- 5 Edit Administration Schedules File
- 6 Display Administration Schedule File
- 7 Create Vital Measurement Quick Order Protocol

#### **Screen Prints:**

Example: Creation of a quick order protocol for taking a pulse BID.

Select Vitals/Measurements Site Files Menu Option: **7** Create Vital Measurement Quick Order Protocol

The package coordinator selects a vital type protocol (i.e., temperature, pulse, pulse oximetry). In this case, Pulse is entered.

Select PROTOCOL to be added as a QUICK PROTOCOL: **PULSE**

The next prompt asks the user to confirm the entry.

DO YOU WANT TO ADD PULSE AS A QUICK ORDER PROTOCOL? YES// **<RET>** (YES)

# Chapter 4 Enter/Edit Vitals/Measurements

## GMRV V/M ENTRY MENU

### Vitals/Measurement Data Entry

#### Description:

This option permits users to enter different types of patient vitals signs and selected measurements into the clinical patient record system. Vitals/Measurements data is stored in the GMRV Vital Measurement (#120.5) file.

#### Additional Information:

Various vitals and other measurement data can be retrieved through any of the Vitals/Measurements Results Reporting menu options. If data was entered in error, the user can correct the misinformation through the Edit a Vitals/Measurements Entered in Error option.

Patient vital signs can be entered by patient, selected room and bed and by ward location (i.e., Hospital Location (#44) file). When vitals are entered, both a date and a time are required as well as hospital location. Vital signs and other patient measurements are documented in the specific order indicated by the vital type (temperature, weight, pulse oximetry). Data representing each vital type entry is also separated by a hyphen: Temp-Pulse-Resp-B/P-Height-Weight. To omit entering a vital/measurement reading:

- Enter 'N' or 'n' for the value when NOT documenting a reason for omission.
- Enter an \* for the specific value when documenting the reason for omission.
- Enter a single \* to document that all measurements were omitted and the reason for omission.

The software supports the documentation of measurement omissions by displaying three reasons (i.e., unavailable, pass, and refused) when an '\*' is entered for a measurement value.

Qualifiers (alpha characters appended to the measurement's numeric value) are used to provide additional information about the vital sign(s) and measurements taken by the clinician. Qualifiers are grouped by categories such as: location (e.g., right arm, left leg), position (e.g., lying, sitting, standing), method (e.g., cuff, Doppler, auscultate, assisted ventilator, T-piece), site (e.g., right, left), quality (e.g., actual, estimated), and cuff size (e.g., adult, small adult, pediatric). Vital types can be printed by category with their associated qualifiers and synonyms through the Display Vitals Category/Qualifier/Synonym Table option. When documenting patient vital signs and measurements, the user may see a listing of valid qualifiers by entering a '?' or '??'. The application coordinator has the ability to add qualifiers and change other software parameters through the Vitals/Measurements Site Files Menu option.

Note: After entering vitals/measurements information for a patient, the software displays this data and asks you, "Is this correct? YES//". The user must answer YES to store the data after it is verified correct. If the user enters an '^' at the prompt, the application does NOT store the data and displays 'DATA DELETED' on the screen. Of course, if NO is entered after the prompt, patient information is NOT stored and all vitals/measurements data must be re-entered.

Defaults: The software has defaults for each vital/measurement except for blood pressure. These defaults are displayed when the clinician validates the measurements entered. The following list summarizes the software's defaults:

- Temperature - Oral
- Pulse - Radial
- Respirations - Spontaneous
- Height - Actual
- Weight - Actual

An application coordinator can change the temperature and pulse defaults through the Change Default Qualifiers for Temp./Pulse option.

Asterisks have two different meanings in the software.

1. When entering vitals/measurements information, the user may enter the \* to prompt the software to display reasons for not documenting a measurement. The user then selects the most appropriate entry.
2. When an \* appears in a report appended to a vitals/ measurement entry, the value of the measurement is either higher or lower than the acceptable value defined in the GMRV Vitals Parameters (#120.57) file. These file values can be edited by the package coordinator through the Edit Vitals Site Parameter File option.

All patient measurements are stored in the U.S. Customary System in File #120.5 and displayed in both U.S. customary units and metric equivalents. Small discrepancies between the entering and displaying of data is due to the conversion between scales.

Temperature scales are automatically defined by the software when a user does not append a 'F' or a 'C' to the numeric entry. A number that is larger than or equal to 45 will be considered as a Fahrenheit temperature, and any number less than 45 will be considered as a Centigrade temperature.

The scales for weight and height cannot be automatically determined. Therefore, the user must enter the scale (U.S. customary unit or metric equivalent) associated with the weight and height.

**Menu Display:**

```
Select OPTION NAME:  GMRVMGR                      Vitals/Measurement

1  Vitals/Measurement Data Entry ...
2  Vitals/Measurements Results Reporting ...
3  Edit a Vital/Measurement Entered in Error
4  Vitals/Measurements Site Files Menu ...
```

**Screen Prints:**

```
Select Vitals/Measurement Option: 1  Vitals/Measurement Data Entry
ENTER DATE (TIME Required) VITALS WERE TAKEN: T@8  (APR 04, 1993@08:00)
```

The first prompt is a system parameter used to identify the date and time the vitals/ measurements were taken; time is required. The date/time is stamped on every vital/measurement that is entered into the system. The Change Date/Time Taken option allows the user to identify a new date/time the measurements were taken, a different vital type, or a new selection of patients without leaving the Vitals/ Measurement Data Entry menu. This Change Date/Time Taken option is further explained later in this chapter.

```
1      TPR
2      TPR B/P
3      TPR B/P, Ht and Wt.
4      TPR, B/P and Wt.
5      Temp, Detailed PR and B/P
6      Detailed B/P and Associated Pulse
7      Pulse
8      Weight
9      Circumference/Girth
10     Pulse Oximetry
11     CVP (Central Venous Pressure)
12     User Configurable Combination
13     Change Date/Time Taken
```

```
Select Vitals/Measurement Data Entry Option: 1  TPR
Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or
(P)atient? P
```

**Example: Process for entering vitals for an individual patient:**

**Enter patient name.**

```
Select PATIENT NAME:  PARKER, PETER P.          --          500-1          YES
SC VETERAN
```

**Enter appropriate hospital location.**

```
Select Hospital Location: 4E// <RET>
```

To omit entering a vital/measurement reading:  
 Enter 'N' or 'n' for the value when NOT documenting a reason for omission.  
 Enter an \* for the specific value when documenting the reason for omission.  
 Enter a single \* to document that all measurements were omitted and the reason for omission.



The temp-pulse-resp are entered at this prompt.

Temp-Pulse-Resp: 102.1-70-24

The following is representative of the software's on-line help:

\*\* Temperature: a number + a location qualifier(optional), e.g., 99.6A or 99.6AX (F AXILLARY) or 37R (C RECTAL).

Default: ORAL

AXILLARY, CORE, ORAL, RECTAL, SKIN, TYMPANIC

\*\* Pulse: a number + a location qualifier(optional), e.g., 70A or 70AP (70 APICAL).

Default: RADIAL

APICAL, BILATERAL PERIPHERALS, BRACHIAL, CAROTID, DORSALIS PEDIS, FEMORAL, OTHER, PERIPHERAL, POPLITEAL, POSTERIOR TIBIAL, RADIAL, ULNAR

\*\* Respiration: a number(0-99 with no decimal places) + method qualifier (optional) e.g., 40C or 40c.

Default: SPONTANEOUS

ASSISTED VENTILATOR, CONTROLLED VENTILATOR, SPONTANEOUS

The entry should be in the following format:

TTT.T-PPP-RR

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.

Enter an \* for the specific value when documenting the reason for omission.

Enter a single \* to document that all measurements were omitted and the reason for omission.

The data entry is one single string of alphanumeric characters with each measurement separated by a hyphen (-). The software redisplay the data as:

```
Temp.: 102.1 F (38.9 C)* ORAL
Pulse: 70 RADIAL
Resp.: 24 SPONTANEOUS
```

Note the asterisk (\*) following the value for temperature. An asterisk (\*) following data indicates that the value is higher or lower than the acceptable values which are defined in the site configurable file GMRV Vitals Parameters (#120.57).

Is this correct? YES// <RET>

At this point the user can reject or accept the entry. This is the last chance to change any possible errors during data entry. The user is able to correct errors at a later time using the error correction option (Edit a Vital/Measurement Entered in Error) which will be discussed later in this chapter.

Do you want to enter other V/M data for this patient? No// <RET> (No)

Select PATIENT NAME: <RET>

This option also supports entering patient vital signs and measurements for all patients on a ward or unit and by selected hospital rooms on a unit. Navigating through the software to document measurements for all patients on a unit is described next.

- 1 TPR
- 2 TPR B/P
- 3 TPR B/P, Ht and Wt.
- 4 TPR, B/P and Wt.
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken

Select Vitals/Measurement Data Entry Option: **1** TPR

Select the measurement(s) you want to enter.

**Example: Entering vitals for all of the patients on a particular unit.**

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? **A**

Enter the appropriate ward/unit name.

Select Unit: **SICU**

Begin entering patient vitals.

YGAFO,PAUL E 550-1 OK? YES// **<RET>**

The clinician may enter patient information in the format described for the individual patient or bypass an entry by entering **<RET>**. The software indicates that no data was entered. The name of the next patient is displayed.

|Temp-Pulse-Resp: **<RET>**

NO DATA ENTERED

Do you wish to stop looping through names? YES// **N** (NO)

When the clinician enters a NO behind the patient's name, he may continue to the next patient by answering NO to the question 'Do you wish to stop looping through names?', or exit by entering YES.

KJER,JAMES E 550-2 OK? YES// **N** (NO)

KCKK,GEORGE R 560-1 OK? YES// **<RET>** (YES)

|Temp-Pulse-Resp: **100.2R-60A-34C**

## Enter/Edit Vitals/Measurement

```
Temp.: 100.2 F (37.9 C) RECTAL
Pulse: 60* APICAL
Resp.: 34* CONTROLLED VENTILATOR
Is this correct? YES// <RET>

GEVFCC,MICHAEL E          560-10 OK? YES// N (NO)
Do you wish to stop looping through names? YES// <RET> (YES)
Enter return to continue <RET>
```

- 1 TPR
- 2 TPR B/P
- 3 TPR B/P, Ht and Wt.
- 4 TPR, B/P and Wt.
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken

Select Vitals/Measurement Data Entry Option: **3** TPR B/P, Ht and Wt.

**Example: Entering vital signs by selecting specific beds.** The software prompts for entering information is identical with the previous two pathways, i.e., entering data by patient or by unit.

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? **S**

Select Unit: **SICU**

**Enter appropriate ward location.**

Ward SICU has the following rooms:

1. 550-1
2. 550-2
3. 550-3
4. 550-4
5. 560-1
6. 560-10
7. 560-2
8. 570-1

Select the NUMBER(S) of the rooms: **5-6**

**Enter room or range of rooms to enter patient vitals.**

Begin entering patient vitals.

```
KCKK,GEORGE R          560-1 OK? YES// <RET>
```

The software loops through the patients located in Rooms 560-1 and 560-10 and the user enters the vitals/measurements values.

- 1 TPR
- 2 TPR B/P
- 3 TPR B/P, Ht and Wt.
- 4 TPR, B/P and Wt.
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken

### Example: Entering detailed B/P and associated pulse.

Select Vitals/Measurement Data Entry Option: **6** Detailed B/P and Associated Pulse

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? **P**

Select PATIENT NAME: **PARKER, PETER P.** -- **500-1** **YES**  
SC VETERAN

Select Hospital Location: 4E// **<RET>** 4E

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.  
Enter an \* for the specific value when documenting the reason for omission.  
Enter a single \* to document that all measurements were omitted and the reason for omission.

BP-Pulse: **120/70-60**

The software displays selections for documenting detailed blood pressures. Each qualifier must be separated by a comma. The user is not required to enter qualifiers to proceed to the next prompt.

Qualifiers for BLOOD PRESSURE:

LOCATION	POSITION	METHOD	CUFF SIZE
1 L ARM	5 LYING	8 CUFF	12 ADULT
2 L LEG	6 SITTING	9 DOPPLER	13 LG ADULT
3 R ARM	7 STANDING	10 NON-INVASIVE	14 PEDIATRIC
4 R LEG		11 PALPATED	15 SM ADULT
			16 THIGH

Select a number under each category (optional).

Separate the numbers with ',': **1,6,8**

L ARM SITTING CUFF

## Enter/Edit Vitals/Measurement

The software displays selections for documenting detailed pulse.

Qualifiers for PULSE:

SITE	METHOD	POSITION
1 LEFT	3 AUSCULTATE	6 LYING
2 RIGHT	4 DOPPLER	7 SITTING
	5 PALPATED	8 STANDING

Select a number under each category (optional).

Separate the numbers with ',': **1**  
LEFT

B/P: 120/70 L ARM SITTING CUFF

Pulse: 60\* RADIAL LEFT

Is this correct? YES// **<RET>**

After reviewing the entry, a user can reject or accept the data. This is the last chance to change any possible errors during data entry. The user is able to correct errors at a later time using the error correction option, Edit a Vital/Measurement Entered in Error, which will be discussed later in this chapter.

Enter another B/P? NO// **<RET>**

If YES is entered, the user can enter another B/P and pulse under the same time for a different position, location, etc..

1	TPR
2	TPR B/P
3	TPR B/P, Ht and Wt.
4	TPR, B/P and Wt.
5	Temp, Detailed PR and B/P
6	Detailed B/P and Associated Pulse
7	Pulse
8	Weight
9	Circumference/Girth
10	Pulse Oximetry
11	CVP (Central Venous Pressure)
12	User Configurable Combination
13	Change Date/Time Taken

### Example: Girth measurement.

Select Vitals/Measurement Data Entry Option: **9** Circumference/Girth

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or

(P)atient? **P**

Select PATIENT NAME: **PARKER, PETER P.** -- 500-1 YES  
SC VETERAN

Select Hospital Location: 4E// **<RET>**

To omit entering a vital/measurement reading:  
 Enter 'N' or 'n' for the value when NOT documenting a reason for omission.  
 Enter an \* for the specific value when documenting the reason for omission.  
 Enter a single \* to document that all measurements were omitted and the reason for omission.

The following is representative of the software's on-line help:

**\*\* Circumference: a number + 'I' or 'C' (2 decimals allowed)**

For example: 72.25I (inches) 147C (centimeters)

The entry should be in the following format:

NNN.NN

Circumference/Girth: **32.25I**

Qualifiers for CIRCUMFERENCE/GIRTH:

LOCATION	SITE
1 ABDOMINAL	10 LEFT
2 ANKLE	11 RIGHT
3 CALF	
4 HEAD	
5 LOWER ARM	
6 OTHER	
7 THIGH	
8 UPPER ARM	
9 WRIST	

The user identifies the type of circumference.

Enter a number under each category, separate numbers with a ','  
 DO NOT select SITE if this is a HEAD/ABDOMINAL girth measurement: **1**  
 ABDOMINAL

Circumference/Girth: 32.25 IN (81.92 CM) ABDOMINAL  
 Is this correct? YES// **Y**

**Example: Circumference of left lower arm.**

To omit entering a vital/measurement reading:  
 Enter 'N' or 'n' for the value when NOT documenting a reason for omission.  
 Enter an \* for the specific value when documenting the reason for omission.  
 Enter a single \* to document that all measurements were omitted and the reason for omission.

Circumference/Girth: **12.25I**

Qualifiers for CIRCUMFERENCE/GIRTH:

LOCATION	SITE
1 ABDOMINAL	10 LEFT
2 ANKLE	11 RIGHT
3 CALF	

## Enter/Edit Vitals/Measurement

4 HEAD  
5 LOWER ARM  
6 OTHER  
7 THIGH  
8 UPPER ARM  
9 WRIST

Enter a number under each category, separate numbers with a ','  
DO NOT select SITE if this is a HEAD/ABDOMINAL girth measurement: **5,10**  
LOWER ARM LEFT

Circumference/Girth: 12.25 IN (31.12 CM) LOWER ARM LEFT  
Is this correct? YES// **<RET>**

Do you want to enter other V/M data for this patient? No// **<RET>** (No)

1 TPR  
2 TPR B/P  
3 TPR B/P, Ht and Wt.  
4 TPR, B/P and Wt.  
5 Temp, Detailed PR and B/P  
6 Detailed B/P and Associated Pulse  
7 Pulse  
8 Weight  
9 Circumference/Girth  
10 Pulse Oximetry  
11 CVP (Central Venous Pressure)  
12 User Configurable Combination  
13 Change Date/Time Taken

### Example: Pulse Oximetry.

Select Vitals/Measurement Data Entry Option: **10** Pulse Oximetry  
Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or  
(P)atient? **P**  
Select PATIENT NAME: **PARKER, PETER P.** -- 500-1 YES  
SC VETERAN

### Answer with patient name.

Select Hospital Location: 4E// **<RET>** 4E

### Enter appropriate hospital location.

To omit entering a vital/measurement reading:  
Enter 'N' or 'n' for the value when NOT documenting a reason for omission.  
Enter an \* for the specific value when documenting the reason for omission.  
Enter a single \* to document that all measurements were omitted and the  
reason for omission.

The following is representative of the software's on-line help:

**\*\* Pulse Oximetry:** Enter the numeric value of the patients O2 saturation obtained via pulse oximetry. The value will be interpreted as a percentage.

The entry should be in the following format:

NNN

PO2: 89

At this prompt the user may indicate that patient was receiving oxygen at the time the pulse oximetry reading was taken. If YES is entered, additional information on the flow rate, O2 concentration, and method of O2 administration can be entered.

Is the patient on supplemental oxygen? Yes// <RET> (Yes)

Enter a number between 0.5-20 for liters/minute, and/or 21-100 for percent of oxygen concentration. If you wish to enter both rates, separate the values with a ','.

Enter the numeric value(s) for amount of supplemental oxygen provided  
|(Separate values with a ','): 3.5,40

Oxygen is supplied by

- 1 AEROSOL/HUMIDIFIED MASK
- 2 FACE TENT
- 3 MASK
- 4 NASAL CANNULA
- 5 NON RE-BREATHING
- 6 PARTIAL RE-BREATHING
- 7 T-PIECE
- 8 TRACHEOSTOMY COLLAR
- 9 VENTILATOR
- 10 VENTURI MASK

Enter a number: 1

Pulse Ox.: 89 % with supplemental O2 40% 3.5 l/min  
via AEROSOL/HUMIDIFIED MASK

Is this correct? YES// <RET>

Do you want to enter other V/M data for this patient? No// <RET> (No)

- 1 TPR
- 2 TPR B/P
- 3 TPR B/P, Ht and Wt.
- 4 TPR, B/P and Wt.
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken



## Enter/Edit Vitals/Measurement

### Example: Central Venous Pressure (CVP).

Select Vitals/Measurement Data Entry Option: **11** CVP (Central Venous Pressure)  
Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? **P**  
Select PATIENT NAME: **PARKER, PETER P.** -- 500-1 YES  
SC VETERAN

Select Hospital Location: 4E// **<RET>** 4E

To omit entering a vital/measurement reading:  
Enter 'N' or 'n' for the value when NOT documenting a reason for omission.  
Enter an \* for the specific value when documenting the reason for omission.  
Enter a single \* to document that all measurements were omitted and the reason for omission.

The following is representative of the software's on-line help:

**\*\* Central venous pressure: a number for cmH2O measurement or a number + 'G' for mmHg measurement (1 decimal allowed).**

**A negative number can be entered up to and including -13 cmH2O or -9.6 mmHg. The entry should be in the following format:**

**NN**

**CVP: 14G**

CVP: 19.04 cmH2O (14.0 mmHg)  
Is this correct? YES// **<RET>**

Do you want to enter other V/M data for this patient? No// **<RET>** (No)

- 1 TPR
- 2 TPR B/P
- 3 TPR B/P, Ht and Wt.
- 4 TPR, B/P and Wt.
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken

### Example: User Configurable Combination.

Select Vitals/Measurement Data Entry Option: **12** User Configurable Combination

This option allow the users to create their own vital signs and measurements combination(s). Although these selections display all prompts that support documentation of detailed measurements, the user can bypass these prompts.

Select the combination of Vitals/Measurements you want to enter.

- 1 T
- 2 P
- 3 R
- 4 B/P
- 5 Wt
- 6 Ht
- 7 Circumference/Girth
- 8 Pulse Oximetry

Data on weight and height is documented on a patient.

Select from 1 to 9 (enter 1,3-5 etc.) or ^ to exit: **5,6**

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or  
(P)atient? **P**

Select PATIENT NAME: **PARKER, PETER P.** -- 500-1 YES  
SC VETERAN

Select Hospital Location: 4E// **<RET>**

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.  
Enter an \* for the specific value when documenting the reason for omission.  
Enter a single \* to document that all measurements were omitted and the  
reason for omission.

The following is representative of the software's on-line help:

**\*\* Weight:** a number+L(l) or a number+K(k) + 2nd quality (optional) 2  
decimals allowed, e.g., 120.25L or 120l (pounds),

45.25K or 45k (kilograms).

120L, 120LA, or 120K for actual weight.

Default: ACTUAL

ACTUAL, DRY, ESTIMATED

**\*\* Height:** a number + ',' + qualifier (2 decimals allowed)

72I (inches) 147C or 147CM (centimeters)

5F10I;E or 5FT10IN;E or 5'10";E (for 5 feet 10 inches ESTIMATED)

Default: ACTUAL

ACTUAL, ESTIMATED

The entry should be in the following format:

WWW.WW-HH

Ht.-Wt.: **5'6";E-165.25LE**

Qualifiers for WEIGHT:

METHOD

- 1 BED
- 2 CHAIR
- 3 STANDING

## Enter/Edit Vitals/Measurement

The user may enter a method indicating how the weight was taken or enter <RET> to display, and the then validate data.

Select a number under each category (optional).

Separate the numbers with ',': 1

BED

Wt.: 165.25 LB (75.11 KG) ESTIMATED BED

Ht.: 5 FT 6 IN (167.64 CM) ESTIMATED

Is this correct? YES// <RET>

Do you want to enter other V/M data for this patient? No// <RET> (No)

- 1 TPR
- 2 TPR B/P
- 3 TPR B/P, Ht and Wt.
- 4 TPR, B/P and Wt.
- 5 Temp, Detailed PR and B/P
- 6 Detailed B/P and Associated Pulse
- 7 Pulse
- 8 Weight
- 9 Circumference/Girth
- 10 Pulse Oximetry
- 11 CVP (Central Venous Pressure)
- 12 User Configurable Combination
- 13 Change Date/Time Taken

### Example: Change Date/Time Taken.

Select Vitals/Measurement Data Entry Option: 7 Pulse

When information is entered using the All patients on a unit or the Selected Rooms on a unit pathway, the user may enter new data with out exiting and re-entering the option by selecting (13) Change Date/Time Taken. This option prompts for a new date/time measurements were taken, a different vital type, and a new selection of patients. As an example, the user documents 6 am pulse readings for 2AS patients, then enters the Change Date/Time Taken option and documents 8 am weights.

Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? A

Select Unit: 2AS

Begin entering patient vitals.

ANESMJS, ESTELL H

OK? YES// <RET>

To omit entering a vital/measurement reading:

Enter 'N' or 'n' for the value when NOT documenting a reason for omission.

Enter an \* for the specific value when documenting the reason for omission.

Enter a single \* to document that all measurements were omitted and the reason for omission.

Pulse: 86

Qualifiers for PULSE:

SITE	METHOD	POSITION
1 LEFT	3 AUSCULTATE	6 LYING
2 RIGHT	4 DOPPLER	7 SITTING
	5 PALPATED	8 STANDING

Select a number under each category (optional).

Separate the numbers with ',': **1,3,7**

LEFT AUSCULTATE SITTING

Pulse: 86 RADIAL LEFT AUSCULTATE SITTING  
Is this correct? YES// **<RET>**

.  
.  
.

The user continues to enter 6 am pulse readings, until he selects the Change Date/Time Taken option to enter 8 am weights.

Do you wish to stop looping through names? YES//**<RET>**  
Enter return to continue **<RET>**

1	TPR
2	TPR B/P
3	TPR B/P, Ht and Wt.
4	TPR, B/P and Wt.
5	Temp, Detailed PR and B/P
6	Detailed B/P and Associated Pulse
7	Pulse
8	Weight
9	Circumference/Girth
10	Pulse Oximetry
11	CVP (Central Venous Pressure)
12	User Configurable Combination
13	Change Date/Time Taken

At the next prompt, the user enters, 13, to enter another date/time, new vital types and select patient(s).

Select Vitals/Measurement Data Entry Option: **13** Change Date/Time Taken  
ENTER DATE (TIME Required) VITALS WERE TAKEN: **T@8:00** (MAR 03, 1997@08:00)

1	TPR
2	TPR B/P
3	TPR B/P, Ht and Wt.
4	TPR, B/P and Wt.
5	Temp, Detailed PR and B/P
6	Detailed B/P and Associated Pulse
7	Pulse
8	Weight
9	Circumference/Girth
10	Pulse Oximetry
11	CVP (Central Venous Pressure)
12	User Configurable Combination
13	Change Date/Time Taken

## Enter/Edit Vitals/Measurement

Select Vitals/Measurement Data Entry Option: **8** Weight  
Vitals by (A)ll patients on a unit, (S)electd Rooms on unit, or (P)atient? **A**  
Select Unit: **2AS**  
Begin entering patient vitals.

ANESMJS,ESTELL H OK? YES// **<RET>**

To omit entering a vital/measurement reading:  
Enter 'N' or 'n' for the value when NOT documenting a reason for omission.  
Enter an \* for the specific value when documenting the reason for omission.  
Enter a single \* to document that all measurements were omitted and the reason for omission.

Wt.: **400L**

Qualifiers for WEIGHT:

METHOD

- 1 BED
- 2 CHAIR
- 3 STANDING

Select a number under each category (optional).  
Separate the numbers with ',': **2**  
CHAIR

Wt.: 400 LB (181.82 KG) ACTUAL CHAIR  
Is this correct? YES// **<RET>**

The user continues to select the patients that have 8 am weight readings and exits when documentation is completed.

### Menu Access:

The Vitals/Measurement Data Entry option is accessed through the Vitals/Measurement menu.

## GMRV ERROR EDIT

### Edit a Vital/Measurement Entered in Error

#### Description:

This option allows users to correct errors in vitals/measurements. When data is edited, a new record is created, and the old record is marked entered in error. Vitals/measurements data is stored in the GMRV Vital Measurement (#120.5) file.

#### Additional Information:

Vitals/measurements data can be retrieved through the Print Vitals Entered in Error for a Patient option. The information entered through this option is also reflected in the Cumulative Vitals Report.

#### Menu Display:

```
Select OPTION NAME:  GMRVMGR                      Vitals/Measurement

1  Vitals/Measurement Data Entry ...
2  Vitals/Measurements Results Reporting ...
3  Edit a Vital/Measurement Entered in Error
4  Vitals/Measurements Site Files Menu ...
```

#### Screen Prints:

```
Select Vitals/Measurement Option: 3  Edit a Vital/Measurement Entered in Error

Select PATIENT NAME:  PARKER,PETER P.           08-04-18       931848807       SC
VETERAN
```

Answer with patient name.

```
Select DATE (TIME optional) of this error: T  (APR 04, 1993)
```

Enter an appropriate date. When the exact time is not remembered, the user may enter the date, and all entries for that date display.

CHOOSE FROM:

- ```
1  APR  4, 1993@08:00
   BP: 120/80  (R ARM/LYING)
   T: 102.1 F (38.9 C)* (ORAL)
   R: 24 (SPONTANEOUS)
   P: 70  (RADIAL)
2  APR  4, 1993@08:01
   BP: 130/85  (L ARM/LYING)
```

## Enter/Edit Vitals/Measurement

Select VITAL/MEASUREMENT from the above list: **1**

Enter the number of the measurement or group of measurements you want to enter in error.

A detailed summary of the data is provided.

```
*** DATA TO BE ENTERED IN ERROR ***
APR  4, 1993@08:00
BP:  120/80 R ARM/LYING
T:   102.1 F (38.9 C)* ORAL
R:   24 (SPONTANEOUS)
P:   70 RADIAL
```

Select a VITAL in error reading, or press return to correct DATE/TIME, PATIENT or set INVALID for the record: **RESPIRATION**

In this example, the respirations were incorrectly documented. The user must select an appropriate reason(s) from 1-4.

In this case, the invalid record selection (4) cannot be used in combination with 1, 2, or 3. The user receives the following prompt.

- 1 INCORRECT DATE/TIME
- 2 INCORRECT READING
- 3 INCORRECT PATIENT
- 4 INVALID VITAL/RECORD

The INVALID RECORD reason cannot be used in combination with any other selections.

The following are examples of identifying incorrect patient data using the above four selections:

**INCORRECT DATE/TIME:** changes the date/time that a vital measurement was taken for a patient.

```
Select the reason(s) for entering this vital/measurement in error: 1
Enter new date/time vitals were taken: 9A (APR 04, 1993@09:00)
```

**INCORRECT READING:** changes the data for a vital/measurement that was taken for a patient. The following prompt displays only if a single/specific vital has been identified for editing.

```
Select the reason(s) for entering this vital/measurement in error: 2
```

```
NEW RESPIRATION: 20A
```

```
..
```

The corrected information is entered.

**INCORRECT PATIENT:** changes the patient for a particular vital measurement (e.g., the data was entered for the wrong patient).

Select the reason(s) for entering this vital/measurement in error: **3**

Select the NEW Patient's name: **STARK, ANTHONY L.** 01-19-25 589632111  
NSC VETERAN

**INVALID RECORD:** deletes the record without adding any new data. In actuality, the bad record is still in the computer, but is not a part of the current patient data.

Select the reason(s) for entering this vital/measurement in error: **4**

If a combination of the above applies, choices can be selected at one time as described below.

Select PATIENT NAME: **GEVFCC, MICHAEL E** 03-22-22 541969342 NSC  
VETERAN

Select DATE (TIME optional) of this error: **T** (APR 04, 1993)  
CHOOSE FROM:

1 APR 4, 1993@08:00  
BP: 120/80  
T: 100.4 F (38.0 C) (ORAL)  
R: 20 (SPONTANEOUS)  
P: 80 (RADIAL)  
HT: 5 FT 8 IN (172.72 CM)  
WT: 200 LB (90.91 KG) (ACTUAL)

Select VITAL/MEASUREMENT from the above list: **1**

\*\*\* DATA TO BE ENTERED IN ERROR \*\*\*

APR 4, 1993@08:00  
BP: 120/80  
T: 100.4 F (38.0 C) ORAL  
R: 20 (SPONTANEOUS)  
P: 80 RADIAL  
HT: 5 FT 8 IN (172.72 CM)  
WT: 200 LB (90.91 KG) ACTUAL

Select a VITAL in error reading, or press return to correct DATE/TIME, PATIENT or set INVALID for the record: **RESPIRATION**

- 1 INCORRECT DATE/TIME
- 2 INCORRECT READING
- 3 INCORRECT PATIENT
- 4 INVALID VITAL/RECORD

Select the reason(s) for entering this vital/measurement in error: **1-3**

Enter new date/time vitals were taken: **9A** (APR 04, 1993@09:00)

NEW RESPIRATION: **24A**

Select the NEW Patient's name: **STARK, ANTHONY L.** 01-19-25 589632111  
NSC VETERAN



## Enter/Edit Vitals/Measurement

Select DATE (TIME optional) of this error: **T** (APR 05, 1993)  
CHOOSE FROM:

```
1 APR 5, 1993@08:00
  BP: 130/80 (L ARM/LYING)
  T: 101.2 F (38.4 C) (RECTAL)
  R: 20 (ASSISTED VENTILATOR)
  P: 80 (APICAL)
```

Select VITAL/MEASUREMENT from the above list: **1**

\*\*\* DATA TO BE ENTERED IN ERROR \*\*\*

```
APR 5, 1993@08:00
  BP: 130/80 L ARM/LYING
  T: 101.2 F (38.4 C) RECTAL
  R: 20 ASSISTED VENTILATOR
  P: 80 APICAL
```

Select a VITAL in error reading, or press return to correct DATE/TIME, PATIENT  
or set INVALID for the record: **<RET>**

```
1 INCORRECT DATE/TIME
2 INCORRECT PATIENT
3 INVALID VITAL/RECORD
```

Select the reason(s) for entering these vital/measurements in error:

### Menu Access:

The Edit a Vital/Measurement Entered in Error option is accessed through the Vitals/Measurement menu.

# Chapter 5 Vitals/Measurements Reports

## GMRV PRINT MENU

### Vitals/Measurements Results Reporting

#### Description:

This menu contains options which allow the users to print various types of vitals/measurements reports. Data printed on these reports is stored in the GMRV Vital Measurement (#120.5) file.

#### Additional Information:

Data printed in these reports was entered through the Vitals/Measurement Data Entry option, or the Edit a Vital/Measurement Entered in Error option. All abnormal patient values are identified on the vitals/measurements reports by an asterisk (\*). Patient vital signs and measurements can be printed by patient, selected room and bed and by ward location (i.e., entry in the Hospital Location (#44) file). All vitals/measurements data for a patient is reflected on the Cumulative Vitals Report and the Vital Signs Record (SF 511) graphic report. The division name is obtained from the Hospital Location (#44) file.

#### Menu Display:

```
Select OPTION NAME:  GMRVMGR                      Vitals/Measurement

    1  Vitals/Measurement Data Entry ...
    2  Vitals/Measurements Results Reporting ...
    3  Edit a Vital/Measurement Entered in Error
    4  Vitals/Measurements Site Files Menu ...

Select Vitals/Measurement Option:  2  Vitals/Measurements Results Reporting

    1      V/M Graphic Reports
    2      Latest Vitals Display for a Patient
    3      Latest Vitals by Location
    4      Cumulative Vitals Report
    5      Print Vitals Entered in Error for a Patient
```

#### Menu Access:

The Vitals/Measurements Results Reporting option is accessed through the Vitals/Measurement menu.

## **GMRV SF511**

### **V/M Graphic Reports**

#### **Description:**

This option provides the user with 4 different reports, the first is a report simulating the Standard Form 511 - Vital Signs Record (Vital Flow Sheet), second is a B/P Plotting Chart, third is a Weight Chart, and last is a Pulse Oximetry/Respiratory Graph. Patient information contained in this report is stored in the GMRV Vital Measurement (#120.5) file, and the GMRY Patient I/O (#126) file.

#### **Additional Information:**

The information printed in this report was entered through the Vitals/Measurements and the GMRY Intake and Output applications. All 24 hour intake and output totals are in cubic centimeters (i.e., milliliters). Reports can be printed by selected patient, for all patients on a ward, and for patients in a specific hospital room/bed. Refer to Printer Issues in the Package Management section for additional information on setting up Kyocera F-800A and Hewlett-Packard LaserJet printers for printing linear graphic reports. Users may print the graphic reports using a dot matrix printer, data plotted is not connected by lines.

#### **Menu Display:**

Select Vitals/Measurement Option: **2** Vitals/Measurements Results Reporting

- 1 V/M Graphic Reports
- 2 Latest Vitals Display for a Patient
- 3 Latest Vitals by Location
- 4 Cumulative Vitals Report
- 5 Print Vitals Entered in Error for a Patient

#### **Screen Prints:**

Select Vitals/Measurements Results Reporting Option: **1** V/M Graphic Reports

- 1 Vital Signs Record
- 2 B/P Plotting Chart
- 3 Weight Chart
- 4 Pulse Oximetry/Respiratory Graph

Select a number between 1 and 4: **1** Vital Signs Record// **<RET>**

Vitals by (A)ll patients on a ward, (S)electd Rooms on ward, or (P)atient? **P**

Enter the patient's name.

Select PATIENT NAME: **STARK, ANTHONY L.** 01-19-25 589632111 NSC  
VETERAN

Enter appropriate start date.

|Start DATE (TIME optional): T-7//**4/1/97** (APR 01, 1997)

Enter appropriate end date.

|Go to DATE (TIME optional): NOW// **4/22/97** (APR 22, 1997)

DEVICE:Enter appropriate response

|This report must be queued to a line printer or sent to a slave printer configured to print a 132 column report.

## Vitals/Measurements Reports

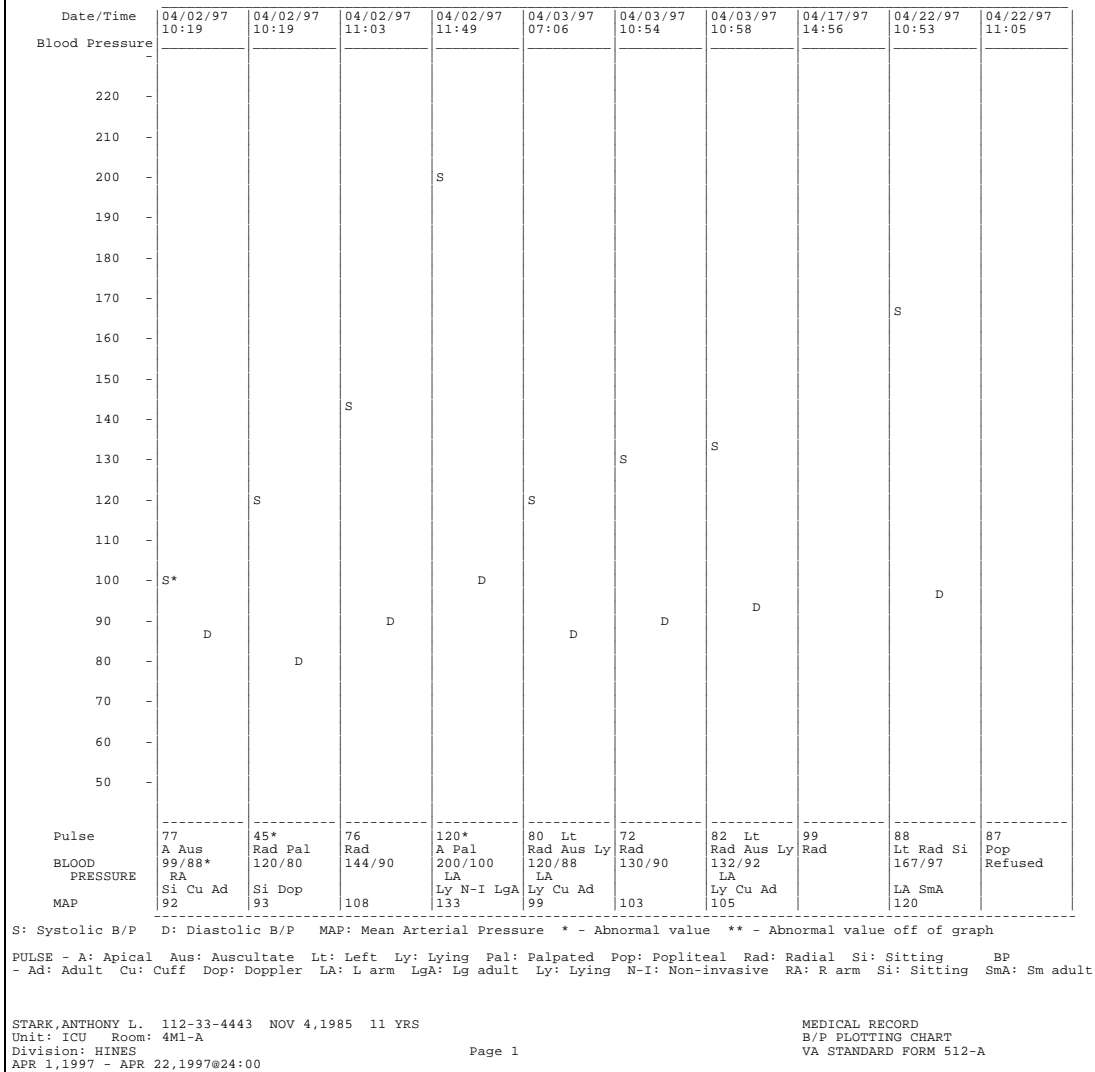
The following is an example of an SF511 (Vital Signs Record) graph sent to a dot matrix printer:

| Date/Time                                                                                                     | 04/01/97<br>08:00 | 04/02/97<br>10:19 | 04/02/97<br>10:19 | 04/02/97<br>11:03 | 04/02/97<br>11:49 | 04/03/97<br>07:06 | 04/03/97<br>10:54 | 04/03/97<br>10:58 | 04/17/97<br>14:56 | 04/22/97<br>10:53 |
|---------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Pulse Temp/F/C                                                                                                |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 160 105/40.6-                                                                                                 |                   |                   |                   |                   | T*                |                   |                   |                   |                   |                   |
| 150 104/40.0-                                                                                                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 140 103/39.4-                                                                                                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 130 102/38.9-                                                                                                 |                   |                   |                   | T*                |                   |                   |                   | T*                |                   |                   |
| 120 101/38.3-                                                                                                 |                   |                   |                   |                   | P*                |                   |                   |                   |                   |                   |
| 110 100/37.8-                                                                                                 | T                 |                   |                   |                   |                   |                   |                   |                   | T                 |                   |
| 100 99/37.2-<br>98.6/37.0-                                                                                    |                   |                   |                   |                   |                   | T                 |                   |                   | P                 |                   |
| 90 98/36.7-                                                                                                   |                   |                   |                   |                   |                   |                   | T                 |                   |                   |                   |
| 80 97/36.1-                                                                                                   |                   | P                 |                   | P                 |                   | P                 |                   | P                 |                   | P                 |
| 70 96/35.6-                                                                                                   |                   |                   |                   |                   |                   |                   | P                 |                   |                   |                   |
| 60 95/35.0-                                                                                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 50 94/34.4-                                                                                                   |                   |                   | P**               |                   |                   |                   |                   |                   |                   |                   |
| Temperature                                                                                                   |                   | 100.0 A           | 45*               | 102.0*T           | 105.0*R           | 99.0 T            | 98.0 T            | 102.0*T           | 100.5 T           |                   |
| Pulse                                                                                                         |                   | 77                | 76                | 76                | 120*              | 80 Lt             | 72                | 82 Lt             | 99                | 88                |
| Respiration                                                                                                   |                   | A Aus             | Rad Pal           | Rad               | A Pal             | Rad Aus Ly        | Rad               | Rad Aus Ly        | Rad               | Lt Rad Si         |
| Pulse Ox.                                                                                                     | 0*S               | 22 S Si           |                   | 30*S              | 45*AV Ly          | 20 S Ly           | 14 S              | 12 S Ly           | 33*S              |                   |
| L/Min                                                                                                         | 80                |                   |                   |                   | 70*               |                   |                   | 92                |                   |                   |
| %                                                                                                             | 2.5               |                   |                   |                   | 2                 |                   |                   | 4                 |                   |                   |
| Method                                                                                                        | 30                |                   |                   |                   | NC                |                   |                   | AM                |                   |                   |
| BLOOD                                                                                                         |                   | 99/88             | 120/80            | 144/90            | 200/100           | 120/88            | 130/90            | 132/92            |                   | 167/97            |
| PRESSURE                                                                                                      |                   | RA                | Si Dop            |                   | LA                | LA                |                   | LA                |                   | LA SmA            |
| Weight (lb)                                                                                                   |                   | Si Cu Ad          |                   |                   | Ly N-I LgA        | Ly Cu Ad          |                   | Ly Cu Ad          |                   |                   |
| (kg)                                                                                                          |                   |                   |                   |                   | 166.00 D C        |                   | 140.00 A          | 152.00 A          |                   |                   |
| Body Mass Index                                                                                               |                   |                   |                   |                   | 75.45             |                   | 63.64             | 69.09             |                   |                   |
| Height (in)                                                                                                   | 73.00 A           |                   |                   |                   | 23                |                   | 19                | 20                |                   |                   |
| (cm)                                                                                                          | 185.42            |                   |                   |                   | 72.00             |                   | 73.00 E           | 73.00             |                   |                   |
| C/G (in)                                                                                                      |                   |                   |                   |                   | 182.88            |                   | 185.42            | 185.42            |                   |                   |
| (cm)                                                                                                          |                   |                   |                   |                   | 12.00 Ank         |                   |                   | 52.00 Abd         |                   |                   |
| CVP (cm H2O)                                                                                                  |                   |                   |                   |                   | 30.48             |                   |                   | 132.08            |                   |                   |
| (mm Hg)                                                                                                       |                   |                   |                   |                   | 22.0              |                   |                   | 29.9*             |                   |                   |
| Intake(24 Hr)(cc)                                                                                             |                   |                   |                   |                   | 16.2              |                   |                   | 22.0*             |                   |                   |
| Output(24 Hr)(cc)                                                                                             |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| T: Temperature P: Pulse C/G: Circumference/Girth * - Abnormal value ** - Abnormal value off of graph          |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| TEMP - A: Axillary R: Rectal T: Tympanic PULSE - A: Apical Aus: Auscultate Lt: Left Ly: Lying Pal: Palpated   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Rad: Radial Si: Sitting RESP - AV: Assisted ventilator Ly: Lying S: Spontaneous Si: Sitting BP - Ad: Adult    |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Cu: Cuff Dop: Doppler LA: L arm LgA: Lg adult Ly: Lying N-I: Non-invasive RA: R arm Si: Sitting SmA: Sm adult |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| HT - A: Actual E: Estimated WT - A: Actual C: Chair D: Dry PULSE OX - AM: Aerosol/humidified mask NC:         |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Nasal cannula CIRC/GIRTH - Abd: Abdominal Ank: Ankle                                                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| STARK, ANTHONY L. 112-33-4443 NOV 4, 1985 11 YRS MALE                                                         |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Unit: ICU Room: 4M1-A MEDICAL RECORD                                                                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Division: HINES VITAL FLOW SHEET                                                                              |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| APR 1, 1997 - APR 22, 1997@24:00 VAF 10-7987 VICE SF 511                                                      |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |

The following is an example of an SF511 (Vital Signs Record) graph sent to a Kyocera, HP Laser Jet 4, or HP Laser Jet 5 printer:

## Vitals/Measurements Reports

The following is an example of the B/P Plotting Chart sent to a dot matrix printer:



The following is an example of the B/P Plotting Chart sent to a Kyocera, HP Laser Jet 4, or HP Laser Jet 5 printer:



## Vitals/Measurements Reports

The following is an example of the Weight Chart sent to a dot matrix printer:

| Date/Time       | 04/01/97<br>08:00 | 04/02/97<br>11:49 | 04/03/97<br>10:54 | 04/03/97<br>10:58 |  |  |  |  |  |
|-----------------|-------------------|-------------------|-------------------|-------------------|--|--|--|--|--|
| Pounds/Kgs      |                   |                   |                   |                   |  |  |  |  |  |
| 5 -             |                   |                   |                   |                   |  |  |  |  |  |
| 190/86.36 -     |                   |                   |                   |                   |  |  |  |  |  |
| 5 -             |                   |                   |                   |                   |  |  |  |  |  |
| 180/81.82 -     |                   |                   |                   |                   |  |  |  |  |  |
| 5 -             |                   |                   |                   |                   |  |  |  |  |  |
| 170/77.27 -     |                   | W                 |                   |                   |  |  |  |  |  |
| 5 -             |                   |                   |                   |                   |  |  |  |  |  |
| 160/72.73 -     |                   |                   |                   |                   |  |  |  |  |  |
| 5 -             |                   |                   |                   |                   |  |  |  |  |  |
| 150/68.18 -     |                   |                   | W                 |                   |  |  |  |  |  |
| 5 -             |                   |                   |                   |                   |  |  |  |  |  |
| 140/63.64 -     |                   |                   | W                 |                   |  |  |  |  |  |
| 5 -             |                   |                   |                   |                   |  |  |  |  |  |
| 130/59.09 -     |                   |                   |                   |                   |  |  |  |  |  |
| 5 -             |                   |                   |                   |                   |  |  |  |  |  |
| 120/54.55 -     |                   |                   |                   |                   |  |  |  |  |  |
| 5 -             |                   |                   |                   |                   |  |  |  |  |  |
| Weight (lb)     |                   | 166.00            | 140.00            | 152.00            |  |  |  |  |  |
| (kg)            |                   | 75.45             | 63.64             | 69.09             |  |  |  |  |  |
| Qualifier       |                   | D C               | A                 | A                 |  |  |  |  |  |
| Height (in)     | 73.00             | 72.00             | 73.00             | 73.00             |  |  |  |  |  |
| (cm)            | 185.42            | 182.88            | 185.42            | 185.42            |  |  |  |  |  |
| Qualifier       | A                 |                   | E                 |                   |  |  |  |  |  |
| Body Mass Index |                   | 23                | 19                | 20                |  |  |  |  |  |

W: Weight \*\* - Abnormal value off of graph

HT - A: Actual E: Estimated WT - A: Actual C: Chair D: Dry

STARK,ANTHONY L. 112-33-4443 NOV 4,1985 11 YRS  
Unit: ICU Room: 4M1-A  
Division: HINES  
APR 1,1997 - APR 22,1997@24:00

Page 1

MEDICAL RECORD  
WEIGHT CHART  
VAF 10-2614f

The following is an example of the Weight Chart sent to a Kyocera, HP Laser Jet 4, or HP Laser Jet 5 printer:

# Vitals/Measurements Reports

The following is an example of the Pulse Oximetry/Respiration Graph sent to a dot matrix printer:

| Date/Time                                                                                                                                                                                                               | 04/01/97<br>08:00 | 04/02/97<br>10:19 | 04/02/97<br>10:19 | 04/02/97<br>11:03 | 04/02/97<br>11:49 | 04/03/97<br>07:06 | 04/03/97<br>10:54 | 04/03/97<br>10:58 | 04/17/97<br>14:56 | 04/22/97<br>10:53 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Pulse Ox. Resp.                                                                                                                                                                                                         |                   |                   |                   |                   | R**               |                   |                   |                   |                   |                   |
| 100 40                                                                                                                                                                                                                  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 98 38                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 96 36                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 94 34                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 92 32                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   | POx               | R*                |                   |
| 90 30                                                                                                                                                                                                                   |                   |                   |                   | R*                |                   |                   |                   |                   |                   |                   |
| 88 28                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 86 26                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 84 24                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 82 22                                                                                                                                                                                                                   |                   | R                 |                   |                   |                   |                   |                   |                   |                   |                   |
| 80 20                                                                                                                                                                                                                   | POx               |                   |                   |                   |                   | R                 |                   |                   |                   |                   |
| 78 18                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 76 16                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 74 14                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   | R                 |                   |                   |                   |
| 72 12                                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   | R                 |                   |                   |
| 70 10                                                                                                                                                                                                                   |                   |                   |                   |                   | POx*              |                   |                   |                   |                   |                   |
| 68 8                                                                                                                                                                                                                    |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 66 6                                                                                                                                                                                                                    |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
|                                                                                                                                                                                                                         | R**               |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Respiration                                                                                                                                                                                                             | 0*S               | 22 S Si           |                   | 30*S              | 45*AV Ly          | 20 S Ly           | 14 S              | 12 S Ly           | 33*S              |                   |
| Pulse Ox.                                                                                                                                                                                                               | 80.0              |                   |                   |                   | 70.0*             |                   |                   | 92.0              |                   |                   |
| L/Min                                                                                                                                                                                                                   | 2.5               |                   |                   |                   | 2                 |                   |                   | 4                 |                   |                   |
| %                                                                                                                                                                                                                       | 30                |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Method                                                                                                                                                                                                                  |                   |                   |                   |                   | NC                |                   |                   | AM                |                   |                   |
| Pulse                                                                                                                                                                                                                   |                   | 77                | 45*               | 76                | 120*              | 80 Lt             | 72                | 82 Lt             | 99                | 88                |
|                                                                                                                                                                                                                         |                   | A Aus             | Rad Pal           | Rad               | A Pal             | Rad Aus Ly        | Rad               | Rad Aus Ly        | Rad               | Lt Rad Si         |
| R: Respiration POx: Pulse Oximetry * - Abnormal value ** - Abnormal value off of graph                                                                                                                                  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| PULSE - A: Apical Aus: Auscultate Lt: Left Ly: Lying Pal: Palpated Rad: Radial Si: Sitting RESP - AV: Assisted ventilator Ly: Lying S: Spontaneous Si: Sitting PULSE OX - AM: Aerosol/humidified mask NC: Nasal cannula |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| STARK,ANTHONY L. 112-33-4443 NOV 4,1985 11 YRS MEDICAL RECORD                                                                                                                                                           |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Unit: ICU Room: 4M1-A                                                                                                                                                                                                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Division: HINES                                                                                                                                                                                                         |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| APR 1,1997 - APR 22,1997@24:00                                                                                                                                                                                          |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Page 1                                                                                                                                                                                                                  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Pulse Oximetry/Respiration Graph                                                                                                                                                                                        |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| SF 512                                                                                                                                                                                                                  |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |

The following is an example of the Pulse Oximetry/Respiration Graph sent to a Kyocera, HP Laser Jet 4, or HP Laser Jet 5 printer:

**Menu Access:**

The V/M Graphic Reports option is accessed through the Vitals/Measurements Results Reporting option of the Vitals/Measurement menu.

**GMRV DISPLAY V/M****Latest Vitals Display for a Patient****Description:**

This option prints the latest vitals/measurements for an individual patient. Patient data is retrieved from the GMRV Vital Measurement (#120.5) file.

**Additional Information:**

Data displayed in this report is entered through the Vitals/Measurement Data Entry option, or the Edit a Vital/Measurement Entered in Error option. This report includes vitals/measurements obtained as an outpatient, inpatient, or both.

**Menu Display:**

Select Vitals/Measurement Option: **2** Vitals/Measurements Results Reporting

- 1 V/M Graphic Reports
- 2 Latest Vitals Display for a Patient
- 3 Latest Vitals by Location
- 4 Cumulative Vitals Report
- 5 Print Vitals Entered in Error for a Patient

**Screen Prints:**

Select Vitals/Measurements Results Reporting Option: **2** Latest Vitals Display for a Patient

Select PATIENT NAME: **STARK, ANTHONY L.** 01-19-25 589632111 NSC  
VETERAN

DEVICE: Enter appropriate response

MAR 25, 1997 (11:21) LATEST VITALS REPORT PAGE 1

```

4M1-A      STARK, ANTHONY L.      112-33-4443

Temp.:      (03/21/97@09:48) 99.4 F (37.4 C)(ORAL)
Pulse:      (03/21/97@09:48) 55*(RADIAL)
Resp.:      (03/21/97@09:48) 20
Pulse Ox:   (03/21/97@09:48) 99% with supplemental O2 30% 3L/min
            - VENTURI MASK
B/P:        (03/13/97@09:28) 120/80
Ht.:        (03/20/97@10:39) 2 ft 10 in (86.36 cm)
Wt.:        (03/20/97@10:39) 500 lb (227.27 kg)(ACTUAL, BED)
BMI:        305*
CVP:        (03/21/97@09:48) 24 cmH2O (17.6 mmHg)
Circ/Girth: (01/23/97@08) 32.1 in (81.53 cm)(ABDOMINAL)
  
```

## Vitals/Measurements Reports

Press return to continue <RET>

### **Menu Access:**

The Latest Vitals Display for a Patient option is accessed through the Vitals/Measurements Results Reporting option of the Vitals/Measurement menu.

**GMRV V/M BY LOCATION****Latest Vitals by Location****Description:**

This option prints the latest vitals/measurements for all patients on a specific ward. Vitals data for a patient is stored in the GMRV Vital Measurement (#120.5) file.

**Additional Information:**

Data printed in this report is entered through the Vitals/Measurement Data Entry option, or the Edit a Vital/Measurement Entered in Error option.

**Menu Display:**

Select Vitals/Measurement Option: **2** Vitals/Measurements Results Reporting

- 1 V/M Graphic Reports
- 2 Latest Vitals Display for a Patient
- 3 Latest Vitals by Location
- 4 Cumulative Vitals Report
- 5 Print Vitals Entered in Error for a Patient

**Screen Prints:**

Select Vitals/Measurements Results Reporting Option: **3** Latest Vitals by Location

Select WARD LOCATION NAME: **MICU**

Enter appropriate ward name.

DEVICE: Enter appropriate response

MAR 25,1997 (11:22) VITALS REPORT FOR UNIT: MICU - HINES, IL PAGE 1

```

-----
                TRAMG,HENRY                793-13-3012

Temp.:      (03/20/97@1)      99.6 F  (37.6 C)(ORAL)
Pulse:      (03/20/97@1)      88(RADIAL)
Resp.:      (03/20/97@1)      24
B/P:        (07/17/96@14:58) 120/80
  
```

Press return to continue or "^" to quit **<RET>**



## Vitals/Measurements Reports

MAR 25,1997 (11:22) VITALS REPORT FOR UNIT: MICU - HINES, IL

PAGE 2

500-1 PARKER,PETER P.

Temp.: (03/20/97@1) 100 F (37.8 C)(ORAL)  
Pulse: (03/20/97@1) 55\*(RADIAL)  
Resp.: (03/20/97@1) 20  
Pulse Ox: (02/20/97@07) 89% with supplemental O2 40% 3.5L/min  
- AEROSOL/HUMIDIFIED MASK  
B/P: (02/21/97@14:17) 120/70(L ARM, LYING, CUFF)  
Ht.: (02/20/97@08) 6 ft (182.88 cm)(ESTIMATED)  
Wt.: (02/20/97@08) 200 lb (90.91 kg)  
BMI: 27  
CVP: (02/21/97@14:28) 19.04 cmH2O (14.0 mmHg)  
Circ/Girth: (02/21/97@14:28) 32.25 in (81.92 cm)(THIGH)

Press return to continue <RET>

### Menu Access:

The Latest Vitals by Location option is accessed through the Vitals/Measurements Results Reporting option of the Vitals/Measurement menu.

**GMRV CUMULATIVE V/M****Cumulative Vitals Report****Description:**

This option prints vitals/measurement information for patients over a user specified period of time. Data comes from the GMRV Vital Measurement (#120.5) file.

**Additional Information:**

Data printed in the reports is entered into the database through the Vitals/Measurement Data Entry option, or the Edit a Vital/Measurement Entered in Error option. Reports can be printed by individual patient, for all patients on a ward, or for patients in a specific hospital room/bed.

**Restrictions:**

Data prints in chronological order.

**Menu Display:**

Select Vitals/Measurement Option: **2** Vitals/Measurements Results Reporting

- 1 V/M Graphic Reports
- 2 Latest Vitals Display for a Patient
- 3 Latest Vitals by Location
- 4 Cumulative Vitals Report
- 5 Print Vitals Entered in Error for a Patient

**Screen Prints:**

Select Vitals/Measurements Results Reporting Option: **4** Cumulative Vitals Report

**Print by patient.**

Vitals by (A)ll patients on a ward, (S)elected Rooms on ward, or (P)atient? **P**

Select PATIENT NAME: **STARK, ANTHONY L.** 01-19-25 589632111 NSC  
VETERAN

**Enter patient name.**

Start with DATE (TIME optional): JAN 3,1993@10:00//**1/1/95** (JAN 01, 1995)

## Vitals/Measurements Reports

Enter an appropriate beginning date for this report. The default date is the date of admission for inpatients or T-7 for outpatients.

Go to DATE (TIME optional): NOW// <RET> (FEB 25, 1997@09:46)

Enter appropriate ending date for this report.

DEVICE: Enter appropriate response

FEB 25, 1997 (10:52) Cumulative Vitals/Measurements Report Page 1

```
-----
07/05/95
14:00
  T:  97.7 F (36.5 C)  (ORAL)
  P:  89  (RADIAL)
  R:  20
  B/P: 145/90  (R ARM, SITTING)
  Ht:  72.00 in (182.88 cm)
  Wt:  225.00 lb (102.27 kg)
  Body Mass Index: 31*
06/18/96
08:00
  P:  62  (RADIAL)
  R:  20
  B/P: 122/68  (R ARM, SITTING)
08:01
  B/P: 102/60* (L ARM, SITTING)
08:02
  B/P: 100/60* (R ARM, STANDING)
08:03
  B/P: 120/70  (L ARM, STANDING)
08:04
  B/P: 110/60* (R ARM, LYING)
08:05
  B/P: 110/70  (L ARM, LYING)
02/17/97
08:00
  T:  99.0 F (37.2 C)  (ORAL)
  P:  75  (LEFT, RADIAL, PALPATED, SITTING)
  R:  14  (SITTING)
  B/P: 120/70  (L ARM)
  Ht:  72.00 in (182.88 cm)
  Wt:  200.00 lb (90.91 kg) (ACTUAL, STANDING)
  Body Mass Index: 27
  Pulse Ox.: 92 % with supplemental O2 30% 3.5L/min
  via MASK
02/19/97
14:00
  T:  98.7 F (37.1 C)  (ORAL)
  P:  70  (LEFT, RADIAL)
  R:  20  (STANDING)
  B/P: 120/60* (L ARM, STANDING)
  Ht:  72.00 in (182.88 cm)
  Wt:  205.00 lb (93.18 kg) (ACTUAL, STANDING)
  Body Mass Index: 28*
  Pulse Ox.: 98 % with supplemental O2 25% 4L/min
  via MASK
```

The following legend is printed on the bottom of the report.

\*\*\* (E) - Error entry

STARK,ANTHONY L 112-33-4443 NOV 4,1985 11 YRS MALE VAF 10-7987j  
Unit: 4E Room: 500-3  
Division: Hines

### **Menu Access:**

The Cumulative Vitals Report option is accessed through the Vitals/Measurements Results Reporting option of the Vitals/Measurement menu.

## **GMRV ERROR REPORT**

### **Print Vitals Entered in Error for a Patient**

#### **Description:**

This option prints a report of all vitals/measurements entered in error for a particular patient for a specific date range. Data comes from the GMRV Vital Measurement (#120.5) file.

#### **Additional Information:**

Patient information printed in this report was entered into the database through the Edit a Vital/Measurement Entered in Error option.

#### **Menu Display:**

Select Vitals/Measurement Option: **2** Vitals/Measurements Results Reporting

- 1 V/M Graphic Reports
- 2 Latest Vitals Display for a Patient
- 3 Latest Vitals by Location
- 4 Cumulative Vitals Report
- 5 Print Vitals Entered in Error for a Patient

#### **Screen Prints:**

Select Vitals/Measurements Results Reporting Option: **5** Print Vitals Entered in Error for a Patient

Select PATIENT NAME: **STARK,ANTHONY L.** 01-19-25 589632111

Enter patient name.

Start with DATE (TIME optional): T-7//**1/1/97** (JAN 01, 1997)

Enter appropriate start date.

go to DATE (TIME optional): NOW// **<RET>** (FEB 25, 1997@12:37)

Enter appropriate end date.

DEVICE: HOME// Enter appropriate response

FEB 25,1997 (11:00) ENTERED IN ERROR VITAL/MEASUREMENT REPORT PAGE 1  
Patient: STARK,ANTHONY L. 112-33-4443

| Date Vit./Meas. taken | User who made error |
|-----------------------|---------------------|
|-----------------------|---------------------|

|                                    |               |
|------------------------------------|---------------|
| FEB 25, 1997@06:30 TEMPERATURE     | WYMAN, SANDRA |
| Reason: incorrect reading          |               |
| (Revised) 102.1 F (38.9 C)* (ORAL) |               |
| (Bad data) 99 F (37.2 C) (ORAL)    |               |

|                                    |
|------------------------------------|
| FEB 25, 1997@06:30 TEMPERATURE     |
| Reason: incorrect reading          |
| (Revised) 102.1 F (38.9 C)* (ORAL) |
| (Bad data) 102 F (38.9 C)* (ORAL)  |

Data might not appear in the Revised Data column under certain conditions, for example, when original data was associated with another patient.

### Menu Access:

The Print Vitals Entered in Error for a Patient option is accessed through the Vitals/Measurements Results Reporting option of the Vitals/Measurement menu.



**Protocol** A single entry point referencing multiple routine entry points to execute several inter related, required processes which perform specific functions. When multiple protocols are associated with a single procedure (i.e., intravenous lines or IV lines), they are found grouped under a single option.

**Qualifier** A word that gives a more detailed description of an item.

**Queuing** The scheduling of a process/task to occur at a later time. Queuing is normally done if a task uses up a lot of computer resources.

**Response Time** The average amount of time the user must wait between the time the user responded to a question at the terminal and the time the system responds by displaying data and/or the next question.

**Restart/Recovery Procedures** The actions necessary to restore a system's data files and computational capability after a system failure or penetration.

**<RET>** Carriage return.

**Routine** A set of M commands and arguments, created, stored, and retrieved as a single unit in M.

**Risk Analysis** An analysis of system assets and vulnerabilities to establish an expected loss from certain events based on estimated probabilities of the occurrence of such events.

**Security Key** A function which unlocks specific options and makes them accessible to an authorized user.

**Security System** A part of Kernel that controls user access to the various computer applications. When a user signs-on, the security system determines the privileges of the user, assigns security keys, tracks usage, and controls the menus or options the user may access. It operates in conjunction with MenuMan.

**Sensitive Information** Any information which requires a degree of protection and which should be made available only to authorized users.

**Service Position** A term used to categorize employees based on job descriptions. Examples of service positions are: staff nurse, LPN 5, NA 4, supervisor, clerk typist, etc.

**Site Configurable** A term used to refer to features in the system that can be modified to meet the needs of each site.

**Software** A generic term referring to a related set of computer programs. Generally, this refers to an operating system that enables user programs to run.

**Subroutine** A part of a program which performs a single function.



**Synonym** A qualifier abbreviation appended to vitals/measurements numeric values on graphic reports.

**Task Manager or TaskMan** A part of Kernel which allows programs or functions to begin at specified times or when devices become available. See Queuing.

**Telecommunications** Any transmission, emission, or reception of signs, signals, writing, images, sounds or other information by wire, radio, visual, or any electromagnetic system.

**Terminal** A device used to send and receive data from a computer system (i.e., keyboard and CRT, or printer with a keyboard).

**UCI** User Class Identifier. The major delimiter of information structure within the operating system.

**User** A person who enters and/or retrieves data in a system, usually utilizing a CRT.

**Utility** An M program that assists in the development and/or maintenance of a computer system.

**VDT** Video Display Terminal. Also called a Cathode Ray Tube (CRT).

**Verify Code** A unique security code which serves as a second level of security access. Use of this code is site specific; sometimes used interchangeably with a password.

**VISTA** Veterans Health Information Systems and Technology Architecture.

**Vital Type** A category of vital sign or measurement (e.g., pulse, respiration, blood pressure, temperature).

# Index

- Accessing menus, 1.2
- Assigning menus, 1.2
- B/P (Blood Pressure):
  - Diastolic, 2.4-2.5
  - Options containing, 2.3, 2.8, 2.18, 4.1, 4.17
  - Reports containing, 2.11, 5.2, 5.13, 5.15, 5.17, 5.20
- Systolic, 2.4-2.5
- BMI (Body Mass Index):
  - Definition, 1
  - Options containing, 4.1
  - Reports containing, 5.2, 5.13, 5.15, 5.17, 5.20
- Central Venous Pressure (example), 4.12
- Change date/time taken (example), 4.14
- Change Default Qualifiers for Temp./Pulse, 2.6
- Circumference/Girth:
  - Options containing, 2.8, 2.18, 4.1, 4.17
  - Reports containing, 2.11, 5.2, 5.13, 5.15, 5.17, 5.20
- Circumference measurement (example), 4.9
- CPRS (Computerized Patient Record System), 2
- Create Vital Measurement Quick Order Protocol, 2.18
- Cumulative Vitals Report, 5.17
- CVP (Central Venous Pressure):
  - Options containing, 2.3, 2.18, 4.1, 4.17
  - Reports containing, 5.2, 5.13, 5.15, 5.17, 5.20
- Default qualifiers for temp./pulse, 2.2, 2.6
- Default stop date, 2.3
- Display Administration Schedule File, 2.14
- Display Vitals Category/Qualifier/Synonym Table, 2.11
- Edit a Vitals/Measurement Entered in Error, 4.17
- Edit Administration Schedules File, 2.15
- Edit Vitals Site Parameter File, 2.3
- Editing site configurable files, 1.2
- Enter/Edit Vitals Qualifiers, 2.8
- Enter/Edit Vitals/Measurements, 4.1
- Entering detailed B/P and associated pulse (example), 4.7
- Entering vital signs by selecting specific beds (example), 4.6
- Entering vitals for all of the patients on a particular unit (example), 4.5
- Entering vitals for an individual patient (example), 4.3
- Files:
  - Administration Schedule, 1.1, 1.2, 2.2, 2.14, 2.15
  - GMRV Vital Category, 1.2, 2.2, 2.6, 2.11
  - GMRV Vital Measurement, 2.1, 4.1, 4.17, 5.1, 5.2, 5.13, 5.15, 5.17, 5.20
  - GMRV Vital Qualifier, 1.2, 2.2, 2.8, 2.11
  - GMRV Vital Type, 2.2
  - GMRV Vitals Parameters, 1.2, 2.3, 4.2, 4.4
  - Protocol, 1.2, 2.2, 2.18
- Functionality, 1

- Girth measurement (example), 4.8
- GMRVMGR, 1.3, 2.1, 4.3, 4.17, 5.1
- Health Summary, 1, 2, 1.1
- Height:
  - Options containing, 2.8, 2.18, 4.1, 4.17
  - Reports containing, 2.11, 5.2, 5.13, 5.15, 5.17, 5.20
- Implementation and Maintenance, 1.1
- Implementation Considerations, 1.5
- Incorrect date/time, 4.18
- Incorrect patient, 4.18
- Incorrect reading, 4.18
- Interfaces with other packages, 2
- Invalid record, 4.19
- IRMS (Information Resource Management Service), 1.1, 1.4
- Latest Vitals by Location, 5.15
- Latest Vitals Display for a Patient, 5.13
- Main menu for Vitals/Measurements (GMRVMGR), 1.3, 2.1, 4.3, 4.17, 5.1
- Maintenance of Site Files, 2.1
- Name spacing and file listing, 1.1
- Non-Virgin Installation of Software, 1.4
- OE/RR (Order Entry/Results Reporting), 1.1, 1.2, 2.2-2.4, 2.15, 2.18
- Package Operation, 3.1
- PCE (Patient Care Encounter), 2
- Print Vitals Entered in Error for a Patient, 5.20
- Printer issues, 1.3
- Printers:
  - HP LaserJet III, 1.3-1.4, 5.2-5.11
  - HP LaserJet 4, 1.3-1.4, 5.2-5.11
  - HP LaserJet 5, 1.3-1.4, 5.2-5.11
  - Kyocera, 1.3-1.4, 5.2, 5.2-5.11
- Pulse:
  - Options containing, 2.3, 2.6, 2.8, 2.18, 4.1, 4.17
  - Reports containing, 2.11, 5.2, 5.13, 5.15, 5.17, 5.20
- Pulse Oximetry:
  - Options containing, 2.3, 2.18, 4.1, 4.17
  - Reports containing, 2.11, 5.2, 5.13, 5.15, 5.17, 5.20
- Pulse Oximetry (example), 4.10
- Queueing TaskMan jobs, 1.2
- Quick Order, 2, 2.18-2.21
- Resource Requirements, 1.5
- Respiration:
  - Options containing, 2.3, 2.8, 2.18, 4.1, 4.17
  - Reports containing, 2.11, 5.2, 5.13, 5.15, 5.17, 5.20
- Scales (Metric and US Customary), 4.2
- Setting up the software environment, 1.1
- SF 511 (Vital Signs Record), 5.4-5.5
- Synonym, 2, 2.2, 2.8, 2.9, 2.11, 4.1
- Temperature:
  - Options containing, 2.3, 2.6, 2.8, 2.18, 4.1, 4.17
  - Reports containing, 2.11, 5.2, 5.13, 5.15, 5.17, 5.20

- User configurable combination (example), 4.12
- V/M Graphic Reports:, 5.2
  - B/P Plotting Chart, 5.6-5.7
  - Pulse Oximetry/Respiration Graph, 5.10-5.11
  - Vital Signs Record (SF511), 5.4-5.5
  - Weight Chart, 5.8-5.9
- Virgin Installation of Software, 1.1
- VISTA, 1, 1.1, 2.14
- Vitals/Measurement, 2.1
- Vitals/Measurement Data Entry, 4.1
- Vitals/Measurements Reports, 5.1
- Vitals/Measurements Results Reporting, 5.1
- Vitals/Measurements Site Files Menu, 2.2
- Weight:
  - Options containing, 2.8, 2.18, 4.1, 4.17
  - Reports containing, 2.11, 5.2, 5.13, 5.15, 5.17, 5.20

